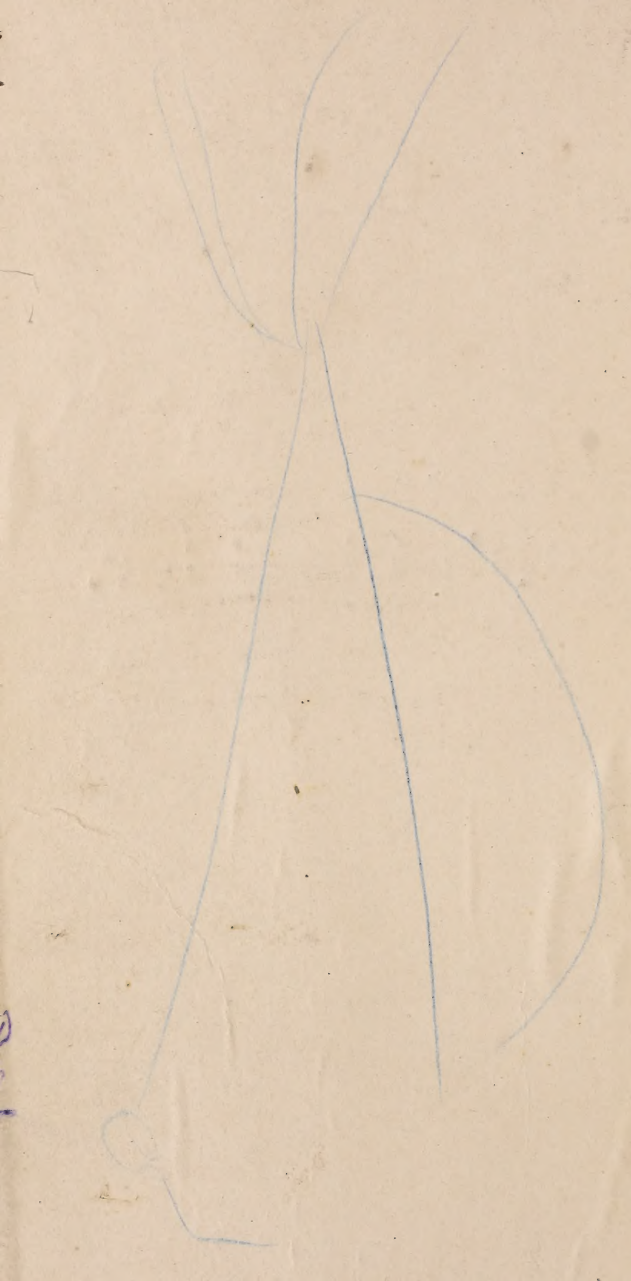


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Joseph Steckler.



ALMANAC

AND

Garden Manual

FOR THE SOUTHERN STATES,

OF THE

J. Steckler Seed Co., Ltd.

M. T. FROTSCHER, President.

SUCCESSORS TO

RICHARD FROTSCHER'S Original Gravier Street Branch Store,

DESIGNED

TO GIVE DIRECTIONS FOR THE CULTIVATION OF VEGETABLES,
AS PRACTISED IN THE SOUTH.

Store and Office, Nos. 518 and 520 Gravier Street,

Warehouse, No. 530 Gravier Street,

Nurseries, Cor. Deslonde and Royal Streets.

P. O. BOX 717.

TELEPHONE 428.

NEW ORLEANS, LA.



MARY T. FROTSCHER, President.

Joseph Steckler, Vice-President and Mgr.

Richard P. Steckler, Sec. and Treas.



J. Steckler Seed Co.,

LIMITED.

M. T. FROTSCHER, President.

SUCCESSORS TO

RICHARD FROTSCHER'S Original Gravier Street Branch Store.

Nos. 518 & 520 GRAVIER STREET,

Bet. Camp and Magazine.

TELEPHONE 428.

NEW ORLEANS, La., January 1st 1898.

In sending out this, the second issue of our

"Seed Catalogue and Garden Manual,"

announcing that we have bought from the heirs of the late RICHARD FROTSCHER, the well known original GRAVIER STREET BRANCH of HIS BUSINESS, we desire to call special attention to the following statements:

The large and very successful business built by the late MR. FROTSCHER, was the result of a strict adherence to a few rules laid down in the beginning by him, and consistently carried out up to this time: viz, a painstaking exactness in filling customers' orders, a careful selection of seeds adapted to our climate, including a personal supervision, while growing, of such varieties as were grown specially for him in this country, and purchasing from only the best and most reliable growers such kinds as have to be grown in Europe. So it came about in time that his name on a package of seed was an unquestioned guarantee of purity and vitality.

It is distinctly our purpose to follow in his foot-steps. It is obviously to our interest to gain and keep the good will and confidence of patrons. We are well aware this can be done only by selling pure and reliable seed.

The personnel of our firm is in itself a guarantee to the public. Our MISS M. T. FROTSCHER, who has been for years her father's most trusted assistant, thoroughly familiar with every detail of the business, is well known to all our old patrons. Our Mr. J. and Mr. R. Steckler, also nephews of Mr. Frotscher, have grown up in his store and trained to business under his eye; and our Mr. J. Steckler has had charge of the Gravier Street Branch Store for the past four years. We have, therefore, not only the spur of self-interest, but also a family pride, in keeping up and establishing for ourselves a reputation for reliability and fair dealing.

All Seeds are tested by us to determine their degree of vitality before sending them out.

All new varieties of Vegetables, etc., will be procured as soon as they come out, a fair trial given them, and all that have merit and are adapted to our climate will be taken into our regular list. Our object in this is to save our customers the cost and delay of making experiments for themselves. They can depend on us to supply them with everything new that proves to be worthy of cultivation.

Relying on our thorough knowledge of the business acquired under such teaching, by many years of experience we confidently ask for a fair share of patronage.

In thanking our friends, customers and the public in general, for their very liberal patronage during the past season, we mean what we say. The unexpected large development of our business is very gratifying to us, especially since our name had not been very long before the public and the Firm J. Steckler Seed Company was new to many of our present patrons.

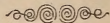
We attribute this steady increase of business principally to our close attention and our superior careful selected stock of undoubted purity and vitality. Although our stock has been a large one, we feel justified in carrying a much larger stock than formerly, amply sufficient to meet all demands in the future, and our patrons will participate in the advantages of this large increase in our business. Their interests are identical with our own.

Our liberality in filling all orders at prices as low as is consistent with a fair profit, with tested seed, strictly pure, is the main reason why we never lose a customer. If you once give us your trade, we are certain of being able to retain it.

Yours truly,

J. STECKLER SEED CO., Ltd.

SEEDS BY MAIL.



Seeds can be sent by mail to any part of the United States, in packages not exceeding four pounds, at eight cents per pound, or one cent for two ounces, or fraction thereof. On seeds ordered in papers or by the ounce, we prepay the postage, except on peas, beans and corn. This refers to large sized papers, which are sold at one dollar per dozen. When ordered by the pound, eight cents per pound postage has to be added to the price of the seeds, to peas, beans and corn, fifteen cents per quart.

All packages are put up in the most careful manner, and every precaution is taken to insure their reaching their destination in safety. Purchasers living at any places where our seeds are not sold, are requested to write to us to obtain their supplies. This will be more profitable than to buy from country stores where seeds left on commission are often kept until all power of germination is destroyed. As seed merchants who give their goods out on commission rarely collect what is not sold oftener than once every twelve months, and as Lettuce, Spinach, Parsnips, Carrots and many other seeds will either not sprout at all, or grow imperfectly if kept over a Summer in the South, to buy and plant such, is but money, time and labor wasted.

Here in our climate, where we plant garden vegetables as freely in Autumn as in Spring, and where often the seeds have to be put in the ground when the weather is very warm, it is an indispensable necessity to have perfectly fresh seeds.

Our arrangements with our growers are made so, that we receive the new crop, expressly cleaned for us, as soon as it is matured. The varieties which are not raised in the North we order from Europe, and have them shipped so as to reach us about the beginning of August, just the time they are needed for fall planting. By following this plan we have always a full supply of fresh seeds of undoubted germinating qualities, while dealers, who sell on commission, have only those from the Winter previous.

On the receipt of \$1.00 we will mail fifteen large sized papers of seeds, put up the same as seeds sold by the pound. These papers can be selected from this Catalogue, and include four papers of either Peas or Beans in the fifteen papers. Or for the same amount, we will mail twenty smaller papers, including four papers of either Peas or Beans. This is done to enable consumers to get reliable seeds in good sized papers in places where our seeds are not sold. The papers put up by Northern seedsmen are so small that of some varieties they hardly contain enough to do any good. The low prices charged to merchants are made at the expense of the consumers. Our papers are large and worth the full value of the money paid for them.

It cannot be too well impressed upon the minds of all cultivators of vegetables, that most seeds kept through a Summer in this climate *will not grow*, and all who use such seeds will be losers.

On all goods ordered C. O. D., one fourth of the amount of bill must accompany the order; otherwise the same will not be filled. All bills are payable in New Orleans or New York Exchange. No individual checks on country banks received on amounts under ten dollars.

1st Month.

JANUARY.

31 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Full Moon.....	7d.	6h.	24m.	After.	New Moon.....	22d.	1h.	25m.	Morn.
Last Quarter.....	15d.	9h.	44m.	Morn.	First Quarter.....	29d.	8h.	33m.	Morn.

Days of Month and Week.	Sun rises.		Sun sets.		Moon r. & s.		CHRONOLOGY OF IMPORTANT EVENTS.
	h.	m.	h.	m.	h.	m.	
1 | Saturday	6	56	5	11	1	29	Galveston recaptured from Federals, 1863.
r.) 2d Sunday after Christmas.							Day's length, 10h. 16m.
2 | Sunday	6	56	5	12	2	27	Gambetta died, 1883.
3 | Monday	6	56	5	13	3	22	Gen. Mercer killed, 1777.
4 | Tuesday	6	57	5	14	4	17	Newton born, 1642.
5 | Wednesday	6	57	5	14	5	10	Richmond, Va., burned, 1781.
6 | Thursday	6	57	5	15	6	0	Epiphany.
7 | Friday	6	57	5	16	rises		Gen. Putnam born, 1781.
8 | Saturday	6	57	5	17	6	1	Battle of New Orleans, 1815.

2.) 1st Sunday after Epiphany.							Day's length, 10h. 20m.
9 | Sunday	6	57	5	17	6	58	Florida and Mississippi seceded, 1861.
10 | Monday	6	57	5	18	7	57	John Roach died, 1887.
11 | Tuesday	6	57	5	19	8	55	Ben. Butler died, 1893.
12 | Wednesday	6	57	5	20	9	53	Bayard Taylor born, 1825.
13 | Thursday	6	57	5	21	10	52	First Church in N. Carolina, 1705.
14 | Friday	6	57	5	22	11	55	Satolli Apostolic Delegate, 1893.
15 | Saturday	6	57	5	23	morn		Edward Everett died, 1865.

3.) 2d Sunday after Epiphany.							Day's length, 10h. 26m.
16 | Sunday	6	57	5	23	1	2	Gibbon died, 1794.
17 | Monday	6	57	5	24	2	11	R. B. Hayes died, 1893.
18 | Tuesday	6	57	5	25	3	20	Luther died, 1546.
19 | Wednesday	6	55	5	26	4	29	Gen. R. E. Lee born, 1807.
20 | Thursday	6	56	5	27	5	31	Australia colonized, 1788.
21 | Friday	6	56	5	28	6	25	John C. Breckenridge born, 1821.
22 | Saturday	6	55	5	28	sets		Lord Bacon born, 1561.

4.) 3d Sunday after Epiphany.							Day's length, 10h. 34m.
23 | Sunday	6	55	5	29	7	16	Justice L. Q. C. Lamar died, 1893.
24 | Monday	6	55	5	30	8	22	Swedenborg born, 1688.
25 | Tuesday	6	54	5	31	9	22	Earthquake in Europe, 1838.
26 | Wednesday	6	54	5	32	10	21	Jenner died, 1823.
27 | Thursday	6	53	5	33	11	20	James G. Blaine died, 1893.
28 | Friday	6	53	5	34	morn		Francis Drake died, 1761.
29 | Saturday	6	52	5	35	0	18	Napoleon and Eugenie married, 1853.

5.) 4th Sunday after Epiphany.							Day's length, 10h. 44m.
30 | Sunday	6	52	5	36	1	14	McMahon resigned, 1879.
31 | Monday	6	52	5	36	2	10	Ben. Johnson born, 1574.

Jewish Calendar—5658.—January 24, Shebat, first day.

2nd Month.

FEBRUARY.

28 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Full Moon.....	6d.	0h.	24m.	After.	New Moon.....	20d.	1h.	41m.	After.
Last Quarter.....	13d.	6h.	35m.	After.	First Quarter.....	28d.	5h.	13m.	Morn.

Days of Month and Week.	Sun rises.		Sun sets.		Moon r. & s.		CHRONOLOGY OF IMPORTANT EVENTS.
	h.	m.	h.	m.	h.	m.	
1 Tuesday	6	51	5	37	3	3	Com. M. F. Maury died, 1873.
2 Wednesday	6	50	5	38	3	55	Peace with Mexico, 1848.
3 Thursday	6	50	5	39	4	42	Gen. J. E. Johnston born, 1807.
4 Friday	6	49	5	40	5	26	John Rogers burnt, 1555.
5 Saturday	6	49	5	40	6	5	Carlyle died 1881.

6.) Septuagesima Sunday.

Day's length, 10h. 53m.

6	Sunday	6 48	5 41	rises	Charles II died, 1685.
7	Monday	6 47	5 42	6 49	Fenelon died, 1715
8	Tuesday	6 46	5 43	7 49	Earthquake in London, 1760.
9	Wednesday	6 46	5 44	8 46	Confederate Congress met, 1861.
10	Thursday	6 45	5 45	9 49	Fall of Roanoke Island, 1862.
11	Friday	6 44	5 45	10 54	Shelby born, 1750.
12	Saturday	6 43	5 46	morn	Darwin born, 1809.

7.) Sexagesima Sunday.

Day's length, 11h. 5m.

13 Sunday	6	42	5	47	0	2	Skirmish at Charlestown, Va., 1863.
14 Monday	6	41	5	48	1	8	St. Valentine.
15 Tuesday	6	41	5	49	2	16	Blackstone died, 1780.
16 Wednesday	6	40	5	49	3	18	Fall of Fort Donelson, 1862.
17 Thursday	6	39	5	50	4	13	Columbia burned, 1865.
18 Friday	6	38	5	51	5	3	Duke of Guise shot, 1563.
19 Saturday	6	37	5	52	5	43	Copernicus born, 1473.

8.) Quinquagesima Sunday.

Day's length, 11h. 17m.

20	Sunday	6 35	5 53	sets	Gen. Beauregard died, 1893.
21	Monday	6 35	5 53	7 6	Tumult in Paris, 1848.
22	Tuesday	6 34	5 54	8 3	Mardi Gras Day in New Orleans.
23	Wednesday	6 33	5 55	9 4	Battle of Buena Vista, 1847.
24	Thursday	6 32	5 55	10 4	Howgate acquitted, 1895.
25	Friday	6 31	5 56	11 2	Wallenstein died, 1634.
26	Saturday	6 30	5 57	11 59	Victor Hugo born, 1802.

9.) Quadregesima Sunday.

Day's length, 11h. 29m.

27	Sunday	6 29	5 58	morn	Lisbon Earthquake, 1796.
28	Monday	6 28	5 58	0 54	Biela's Comet discovered, 1826.

Jewish Calendar—5658—February 23, Adar, first day.

3rd Month.

MARCH.

31 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Full Moon.....	8d.	3h.	29m.	Morn.	New Moon.....	22d.	2h.	37m.	Morn.
Last Quarter.....	15d.	1h.	48m.	Morn.	First Quarter.....	30d.	1h.	40m.	Morn.

Days of Month and Week.	Sun rises.		Sun sets.		Moon r. & s.		CHRONOLOGY OF IMPORTANT EVENTS.
	h.	m.	h.	m.	h.	m.	
1 Tuesday	6	26	5	59	1	46	W. W. Allen app'td Brig. Gen., 1864.
2 Wednesday	6	25	6	0	2	35	John Stuart Blackie died, 1895.
3 Thursday	6	24	6	1	3	20	A. H. Stephens died, 1883.
4 Friday	6	22	6	2	4	0	Inauguration Day.
5 Saturday	6	21	6	2	4	37	Madison born, 1757.

10.) 2d Sunday in Lent.

Day's length, 11h. 43m.

6 Sunday	6	20	6	3	5	10	Battle of Elkhorn Tavern, Ark., 1862.
7 Monday	6	19	6	4	5	41	Skirmish near Winchester, Va., 1862.
8 Tuesday	6	18	6	4	rises		Henry Ward Beecher died, 1887.
9 Wednesday	6	17	6	5	7	38	Napoleon I married, 1796.
10 Thursday	6	15	6	6	8	45	Mazzini died, 1872.
11 Friday	6	14	6	6	9	52	Tasso born, 1544.
12 Saturday	6	13	6	7	11	1	Decatur killed, 1820.

11.) 3d Sunday in Lent.

Day's length, 11h. 55m.

13 Sunday	6	12	6	7	morn		Herschel discovered Uranus, 1781.
14 Monday	6	11	6	8	0	9	Andrew Jackson born, 1767.
15 Tuesday	6	10	6	9	1	12	Battle Guilford C. H., 1781.
16 Wednesday	6	9	6	9	2	9	Skirmish near Marshall, Mo., 1862.
17 Thursday	6	7	6	10	2	58	St. Patrick's Day.
18 Friday	6	6	6	11	3	40	Calhoun born, 1782.
19 Saturday	6	5	6	11	4	16	St. Joseph's Day.

12.) 4th Sunday in Lent.

Day's length, 12h. 8m.

20 Sunday	6	4	6	12	4	50	Operations near Bluffton, S. C., 1862.
21 Monday	6	3	6	12	5	20	Gen. J. E. Johnston died, 1891.
22 Tuesday	6	1	6	13	sets		Newton died, 1727.
23 Wednesday	6	0	6	14	7	49	Nice Opera House burned, 1881.
24 Thursday	5	58	6	14	8	48	Battle of Kunstown, 1862.
25 Friday	5	57	6	15	9	46	Thames tunnel opened, 1843.
26 Saturday	5	56	6	15	10	42	D. H. Hill app'td Maj. Gen., 1862.

13.) 5th Sunday in Lent.

Day's length, 12h. 21m.

27 Sunday	5	55	6	16	11	36	Vera Cruz captured, 1847.
28 Monday	5	54	6	17	morn		Gen. Thomas died, 1870.
29 Tuesday	5	52	6	17	0	27	Planet Vista discovered, 1807.
30 Wednesday	5	51	6	18	1	13	Earthquake in Peru, 1828.
31 Thursday	5	50	6	18	1	56	Calhoun died, 1850.

4th Month.

APRIL.

30 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Full Moon	6d.	3h.	20m.	After.	New Moon	20d.	4h.	21m.	After.
Last Quarter	13d.	8h.	28m.	Morn.	First Quarter	28d.	8h.	5m.	Morn.

Days of Month and Week.	Sun rises.		Sun sets.		Moon r. & s.		CHRONOLOGY OF IMPORTANT EVENTS.
	h.	m.	h.	m.	h.	m.	

1	Friday	5	49	6	19	2	34	Santa Anna President, 1833.
2	Saturday	5	48	6	20	3	8	A. P. Hill killed, 1865.

14.) Palm Sunday.

Day's length, 12h. 33m.

3	Sunday	5	47	6	20	3	40	Richmond evacuated, 1865.
4	Monday	5	46	6	21	4	8	Fight near Pittsburg Landing, Tenn., 1862.
5	Tuesday	5	44	6	21	4	42	Robert Raikes died, 1811.
6	Wednesday	5	43	6	22	rises		Gen. A. S. Johnston died, 1862.
7	Thursday	5	42	6	23	7	37	Wordsworth born, 1770.
8	Friday	5	41	6	23	8	47	Good Friday.
9	Saturday	5	39	6	24	9	58	Gen. Lee surrendered, 1865.

15.) Easter Sunday.

Day's length, 12h. 46m.

10	Sunday	5	38	6	24	11	4	Ft. Pulaski surrendered, 1862.
11	Monday	5	37	6	25	morn		Civil War begun, 1861.
12	Tuesday	5	36	6	26	0	4	Henry Clay born, 1777.
13	Wednesday	5	35	6	26	0	56	James Buchanan born, 1791.
14	Thursday	5	34	6	27	1	40	Embargo Law repealed, 1814.
15	Friday	5	33	6	27	2	18	Patent Law passed, 1790.
16	Saturday	5	32	6	28	2	50	Fort Pillow taken, 1864.

16.) Low Sunday.

Day's length, 12h. 58m.

17	Sunday	5	31	6	29	3	20	Virginia seceded, 1861.
18	Monday	5	30	6	29	3	55	Battle of Cerro Gordo, 1847.
19	Tuesday	5	29	6	30	4	23	Commenced moving Libby Prison, 1889.
20	Wednesday	5	27	6	30	4	56	Robt. F. Hoke commissioned, 1864.
21	Thursday	5	26	6	31	sets		Battle of San Jacinto, 1836.
22	Friday	5	25	6	32	8	32	Capture of Union Launches, 1862.
23	Saturday	5	24	6	32	9	27	S. C. ratified Con. States constitution, 1861.

17.) 2d Sunday after Easter.

Day's length, 13h. 10m.

24	Sunday	5	23	6	33	10	19	New Orleans taken, 1862.
25	Monday	5	22	6	34	11	8	Wm. Cowper died, 1800.
26	Tuesday	5	22	6	34	11	51	Johnston's army surrendered, 1865.
27	Wednesday	5	21	6	35	morn		Gibbon born, 1737.
28	Thursday	5	20	6	35	0	30	Wolfe killed, 1759.
29	Friday	5	19	6	36	1	5	Parson Brownlow died, 1877.
30	Saturday	5	18	6	36	1	37	Tennessee seceded, 1861.

Jewish Calendar.—5658.—April 23, Iyar, first day.

5th Month.

MAY.

31 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Full Moon.....	6d.	0h.	34m.	Morn.	New Moon.....	20d.	6h.	58m.	Morn.
Last Quarter.....	12d.	3h.	36m.	After.	First Quarter.....	28d.	11h.	14m.	Morn.

Days of Month and Week.	Sun	Sun	Moon
	rises.	sets.	r. & s.
	h. m.	h. m.	h. m.

CHRONOLOGY OF IMPORTANT EVENTS.

18.) 3rd Sunday after Easter.

Day's length, 13h. 20m.

1	Sunday	5 17	6 37	2 6	Battle at Port Gibson Miss., 1863.
2	Monday	5 16	6 38	2 37	\$7,000,000 fire in San Francisco, 1851.
3	Tuesday	5 15	6 38	3 10	2d Day at Chancellorsville, 1863.
4	Wednesday	5 14	6 39	3 44	Ticonderoga taken, 1775.
5	Thursday	5 13	6 40	4 20	Battle of Williamsburg, Va., 1862.
6	Friday	5 12	6 40	rises	Second day battle of Wilderness, 1864.
7	Saturday	5 11	6 41	8 49	Judah P. Benjamin died, 1884.

19.) 4th Sunday after Easter.

Day's length, 13h. 31m.

8	Sunday	5 11	6 42	9 54	Battle of McDowell, 1862.
9	Monday	5 10	6 42	10 50	Stonewall Jackson died, 1835.
10	Tuesday	5 10	6 43	11 39	Benton died, 1853.
11	Wednesday	5 9	6 44	morn	Earthquake at Lima, 1746.
12	Thursday	5 8	6 44	0 19	J. E. B. Stuart died, 1864.
13	Friday	5 8	6 45	0 53	Vienna taken, 1809.
14	Saturday	5 7	6 46	1 24	Pullman employees strike, 1894.

20.) Rogation Sunday.

Day's length, 13h. 40m.

15	Sunday	5 6	6 46	1 55	Daniel O'Connell died, 1847.
16	Monday	5 6	6 47	2 27	Mrs. Hemans died, 1835.
17	Tuesday	5 5	6 47	2 57	John Jay died, 1829.
18	Wednesday	5 5	6 48	3 30	Napoleon made Emperor, 1804.
19	Thursday	5 4	6 49	4 7	Ascension Day.
20	Friday	5 4	6 49	sets	John Stuart Mill born, 1806.
21	Saturday	5 3	6 50	8 14	Lafayette died, 1834.

21.) Sunday after Ascension.

Day's length, 13h. 48m.

22	Sunday	5 3	6 51	9 3	Pope born. 1688.
23	Monday	5 2	6 51	9 48	Battle of Front Royal, 1862.
24	Tuesday	5 2	6 52	10 28	Queen Victoria born, 1819.
25	Wednesday	5 2	6 52	11 4	Arlington Heights captured, 1861.
26	Thursday	5 1	6 53	11 37	Calvin died, 1564.
27	Friday	5 1	6 53	morn	Vanderbilt born, 1794.
28	Saturday	5 0	6 54	0 7	Noah Webster died, 1843.

22.) Pentecost—Whit Sunday.

Day's length, 13h. 54m.

29	Sunday	5 0	6 54	0 36	Lee's Statue unveiled at Richmond, 1890.
30	Monday	5 0	6 55	1 8	Battle of Corinth, 1862.
31	Tuesday	4 59	6 55	1 39	Battle of Seven Pines, 1862.

6th Month.

JUNE.

30 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Full Moon.....	4d. 8h. 11m.	Morn.	New Moon.....	18d. 10h. 19m.	After.
Last Quarter.....	11d. 0h. 4m.	Morn.	First Quarter.....	26d. 10h. 54m.	After.

Days of Month and Week.	Sun rises.	Sun sets.	Moon r. & s.	CHRONOLOGY OF IMPORTANT EVENTS.
	h. m.	h. m.	h. m.	

1	Wednesday	4 59	6 56	2 13	John Kelly died, 1886.
2	Thursday	4 59	6 57	2 53	John Randolph born, 1773.
3	Friday	4 59	6 57	3 41	President Davis born, 1808.
4	Saturday	4 59	6 58	rises	George III born, 1738.

23.) Trinity Sunday.

Day's length, 13h. 59m.

5	Sunday	4 59	6 58	8 37	A. P. Stewart app'td Maj. General, 1863.
6	Monday	4 58	6 59	9 31	Patrick Henry died, 1799.
7	Tuesday	4 58	7 0	10 14	Edwin Booth died, 1893.
8	Wednesday	4 58	7 0	10 53	Battle of Port Republic, 1862.
9	Thursday	4 58	7 1	11 25	Ford's Theatre collapsed, 1893.
10	Friday	4 58	7 1	11 58	Battle of Big Bethel, Va., 1861.
11	Saturday	4 58	7 1	morn	Confederate Cavalry entered Md., 1863.

24.) 1st Sunday after Trinity.

Day's length, 14h. 4m.

12	Sunday	4 58	7 2	0 29	Wm. C. Bryant died, 1878.
13	Monday	4 58	7 2	1 0	Gen. Scott born, 1786.
14	Tuesday	4 58	7 2	1 31	Grant crossed the James, 1864.
15	Wednesday	4 58	7 3	2 7	Arkansas admitted, 1836.
16	Thursday	4 58	7 3	2 47	Smith's attack on Petersburg, Va., 1864.
17	Friday	4 58	7 3	3 31	B. E. Bee appointed Brig. Gen., 1864.
18	Saturday	4 59	7 3	4 18	Waterloo, 1815.

25.) 2d Sunday after Trinity.

Day's length, 14h. 4m

19	Sunday	4 59	7 3	sets	War of 1812 declared.
20	Monday	4 59	7 4	8 27	Gen. Holmes died, 1880.
21	Tuesday	4 59	7 4	9 5	Jackson Stat. at Lexington unveiled, 1891.
22	Wednesday	4 59	7 4	9 38	D. E. Twiggs appointed Maj. Gen., 1861.
23	Thursday	5 0	7 4	10 9	John Randolph died, 1833.
24	Friday	5 0	7 4	10 37	St. John the Baptist.
25	Saturday	5 0	7 4	11 9	L. Polk appointed Maj. Gen., 1861.

26.) 3d Sunday after Trinity.

Day's length, 14h. 3m.

26	Sunday	5 1	7 4	11 39	Seven days fight begins, 1862.
27	Monday	5 1	7 5	morn	Battle of Cold Harbor, 1862.
28	Tuesday	5 1	7 5	0 10	Madison died, 1836.
29	Wednesday	5 1	7 5	0 46	Henry Clay died, 1852.
30	Thursday	5 2	7 5	1 29	Guiteau hung, 1882.

7th Month.

JULY.

31 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Full Moon.....	3d	3h. 12m.	After.	New Moon.....	18d.	1h. 47m.	After.
Last Quarter.....	10d.	10h. 43m.	Morn.	First Quarter.....	26d.	7h. 40m.	Morn.

Days of Month and Week.	Sun rises.		Sun sets.		Moon r. & s.		CHRONOLOGY OF IMPORTANT EVENTS.
	h.	m.	h.	m.	h.	m.	

1	Friday	5	2	7	5	2	20	Battle of Malvern Hill, 1862.
2	Saturday	5	3	7	5	3	20	Tennessee admitted, 1861.

27.) 4th Sunday after Trinity. Day's length, 14h. 2m.

3	Sunday	5	3	7	5	rises	Battle of Gettysburg, 1863.
4	Monday	5	4	7	5	8 6	Vicksburg surrendered to Grant, 1863.
5	Tuesday	5	4	7	5	8 48	Battle of Chippewa, 1814.
6	Wednesday	5	4	7	4	9 23	Virginia voted on new Constitution, 1869.
7	Thursday	5	5	7	4	9 56	Paul Hayne died, 1886.
8	Friday	5	5	7	4	10 31	H. D. Clayton appt'd Maj. Gen., 1864.
9	Saturday	5	6	7	4	11 1	Braddock's defeat, 1755.

28.) 5th Sunday after Trinity. Day's length, 13h. 58m.

10	Sunday	5	6	7	4	11 33	Wyoming admitted, 1890.
11	Monday	5	7	7	4	morn	D. H. Hill appointed Lieut. Gen., 1863.
12	Tuesday	5	7	7	3	0 7	Morgan's raid, 1863.
13	Wednesday	5	8	7	3	0 46	John C. Pemberton died, 1881.
14	Thursday	5	8	7	2	1 28	R. H. Anderson appt'd Maj. Gen., 1862.
15	Friday	5	9	7	2	2 15	Napoleon sent to Elba, 1815.
16	Saturday	5	10	7	2	3 4	J. F. Gilmer appt'd Maj. Gen., 1863.

29.) 6th Sunday after Trinity. Day's length, 13h. 57m.

17	Sunday	5	10	7	1	3 58	Gen. J. J. Pettigrew killed, 1863.
18	Monday	5	11	7	1	sets	Battle of Bull Run, 1861.
19	Tuesday	5	11	7	1	7 42	Battle of Winchester, 1864.
20	Wednesday	5	12	7	0	8 12	First Confed. Cong. met at Richmond, 1861
21	Thursday	5	12	6	59	8 41	Battle of Manassas, 1861.
22	Friday	5	13	6	59	9 9	Battle of Decatur, Ga., 1864.
23	Saturday	5	13	6	59	9 41	Gen. Burnside born, 1824.

30.) 7th Sunday after Trinity. Day's length, 13h. 44m.

24	Sunday	5	14	6	58	10 11	Van Buren died, 1862.
25	Monday	5	14	6	57	10 45	J. E. B. Stuart appt'd Maj. Gen., 1862.
26	Tuesday	5	15	6	57	11 23	W. F. Brantley appt'd Brig. Gen., 1864.
27	Wednesday	5	16	6	56	morn	Montgomery Blain died, 1883.
28	Thursday	5	16	6	56	0 10	Battle of Atlanta, Ga., 1864.
29	Friday	5	17	6	55	1 4	First Almanac printed, 1472.
30	Saturday	5	17	6	54	2 6	Petersburg crater explosion, 1864.

31.) 8th Sunday after Trinity. Day's length, 13h. 36m.

31	Sunday	5	18	6	54	3 17	Andrew Johnson died, 1875.
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Jewish Calendar.—5658.—July 20, Ab, first day.

8th Month.

AUGUST.

31 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Full Moon.....	1d.	10h.	29m.	After.	First Quarter.....	24d.	2h.	32m.	After.
Last Quarter.....	9d.	0h.	13m.	Morn.	Full Moon.....	31d.	6h.	51m.	Morn.
New Moon.....	17d.	4h.	34m.	Morn.					

Days of Month and Week.	Sun rises.		Sun sets.		Moon r. & s.		CHRONOLOGY OF IMPORTANT EVENTS.
	h.	m.	h.	m.	h.	m.	

1	Monday	5	19	6	53	rises	Colorado admitted, 1876.
2	Tuesday	5	19	6	52	7 18	Napoleon Consul, 1802.
3	Wednesday	5	20	6	51	7 52	Fitzhugh Lee appointed Maj. Gen., 1863.
4	Thursday	5	20	6	51	8 29	S. J. Tilden died, 1886.
5	Friday	5	21	6	50	9 0	Battle of Baton Rouge, La., 1862.
6	Saturday	5	22	6	49	9 32	Kemmler electrocuted, 1890.

32.) 9th Sunday after Trinity.

Day's length, 13h. 26m.

7	Sunday	5	22	6	48	10 6	Riots in Belfast, 1886.
8	Monday	5	23	6	47	10 45	Battle of Cedar Mountain, 1862.
9	Tuesday	5	24	6	46	11 26	Gen. Lyon killed, 1861.
10	Wednesday	5	24	6	45	morn	L. L. Lomax appointed Maj. Gen., 1864.
11	Thursday	5	25	6	44	0 10	U. S. wagon train captured by Mosby, 1863.
12	Friday	5	26	6	43	1 0	Wm. Barksdale app'td Brig. Gen., 1862.
13	Saturday	5	26	6	43	1 52	Nat. Turner's insurrection, 1831.

33.) 10th Sunday after Trinity.

Day's length, 13h. 15m.

14	Sunday	5	27	6	42	2 45	Farragut died, 1879.
15	Monday	5	27	6	41	3 41	Napoleon born, 1769.
16	Tuesday	5	28	6	40	4 37	Senator Ben. Hill died, 1882.
17	Wednesday	5	28	6	39	sets	Ole Bull died, 1880.
18	Thursday	5	29	6	38	7 12	Confederate Congress met, 1862.
19	Friday	5	30	6	37	7 45	Battle of Contreras, 1847.
20	Saturday	5	30	6	36	8 15	McClellan in Command Army Pot., 1861.

34.) 11th Sunday after Trinity.

Day's length, 13h. 3m.

21	Sunday	5	31	6	34	8 46	Chattanooga taken, 1863.
22	Monday	5	31	6	33	9 24	Battle of Catlets Station, 1862.
23	Tuesday	5	32	6	32	10 6	Battle of Rappahannock, 1862.
24	Wednesday	5	33	6	31	10 57	St. Bartholomew massacre, 1572.
25	Thursday	5	33	6	30	11 54	Herschell died, 1822.
26	Friday	5	34	6	29	morn	Capture of Fort Hatteras, N. C., 1861.
27	Saturday	5	34	6	28	0 59	Battle of Long Island, 1776.

35.) 12th Sunday after Trinity.

Day's length, 12h. 52m.

28	Sunday	5	35	6	27	2 8	Battle of Centreville, 1862.
29	Monday	5	35	6	26	3 20	Brigham Young died, 1877.
30	Tuesday	5	36	6	24	4 30	Commodore Semmes died, 1877.
31	Wednesday	5	36	6	23	rises	Charleston Earthquake, 1886.

Jewish Calendar—5658—August 19. Ellul, first day.

9th Month.

SEPTEMBER.

30 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Last Quarter.....	7d. 4h. 51m. After.	First Quarter.....	22d. 8h. 39m. After.
New Moon.....	15d. 6h. 10m. After.	Full Moon.....	29d. 5h. 10m. After.

Days of Month and Week.	Sun rises.	Sun sets.	Moon r. & s.	CHRONOLOGY OF IMPORTANT EVENTS.
	h. m.	h. m.	h. m.	

1 Thursday	5 37	6 22	6 58	Battle of Jonesborough, Ga., 1864.
2 Friday	5 37	6 21	7 29	Atlanta, Ga., captured by Sherman, 1864.
3 Saturday	5 38	6 20	8 4	J. R. Anderson app'td Brig. Gen., 1861.

36.) 13th Sunday after Trinity. Day's length, 12h. 40m.

4 Sunday	5 38	6 18	8 41	Gen. Morgan killed, 1864.
5 Monday	5 39	6 17	9 22	Malta taken, 1800.
6 Tuesday	5 40	6 16	10 6	Lafayette born, 1757.
7 Wednesday	5 40	6 15	10 54	Gen. Jos. R. Anderson died, 1892.
8 Thursday	5 41	6 13	11 45	Battle of Lake George, 1755.
9 Friday	5 41	6 12	morn	California admitted, 1850.
10 Saturday	5 42	6 11	0 38	S. S. Cox died, 1889.

37.) 14th Sunday after Trinity. Day's length, 12h. 28m.

11 Sunday	5 42	6 10	1 32	Battle of Lake Champlain, 1814.
12 Monday	5 43	6 9	2 28	Bragg appt'd Maj. General, 1861.
13 Tuesday	5 43	6 7	3 25	Great floods in Spain, 3000 lives lost, 1891.
14 Wednesday	5 44	6 6	4 22	Cor. stone 14th Sept. Mon't laid, N. O., 1891.
15 Thursday	5 44	6 5	5 21	Postal Convention at Berne, 1874.
16 Friday	5 45	6 4	sets	Revolution in Guatemala, 1891.
17 Saturday	5 45	6 2	6 50	U. S. Constitution adopted, 1787.

38.) 15th Sunday after Trinity. Day's length, 12h. 15m.

18 Sunday	5 46	6 1	7 25	Fugitive Slave Law signed, 1850.
19 Monday	5 46	6 0	8 7	Battle of Bemis Heights, 1777.
20 Tuesday	5 47	5 59	8 55	Battle of Chicamauga, 1863.
21 Wednesday	5 48	5 58	9 49	Battle of Monterey, 1846.
22 Thursday	5 48	5 56	10 52	Battle of Fisher's Hill, Va., 1864.
23 Friday	5 49	5 55	11 57	Neptune discovered, 1846.
24 Saturday	5 49	5 54	morn	Gen. D. H. Hill died, 1889.

39.) 16th Sunday after Trinity. Day's length, 12h. 3m.

25 Sunday	5 50	5 53	1 6	Arnold deserted, 1780.
26 Monday	5 50	5 51	2 13	Philadelphia surrendered, 1777.
27 Tuesday	5 51	5 50	3 22	Boone died, 1820.
28 Wednesday	5 52	5 49	4 28	Wirt Adams appointed Brig. Gen., 1863.
29 Thursday	5 52	5 48	5 27	St. Michael.
30 Friday	5 53	5 46	rises	J. C. Brown appt'd Brig. Gen., 1862.

Jewish Calendar.—September 17, New Year, 5659.

10th Month.

OCTOBER.

31 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Last Quarter.....	7d.	0h.	5m.	After.	First Quarter.....	22d.	3h.	9m.	Morn.
New Moon.....	15d.	6h.	37m.	Morn.	Full Moon.....	29d.	6h.	18m.	Morn.

Days of Month and Week.	Sun rises.	Sun sets.	Moon r. & s.	CHRONOLOGY OF IMPORTANT EVENTS.
	h. m.	h. m.	h. m.	

1 | Saturday	5 53	5 45	6 35	Disastrous Equinoctial storm in La., 1893.
40.) 17th Sunday after Trinity.	Day's length, 11h. 51m.			
2 | Sunday	5 53	5 44	7 16	First R. R. in U. S., 1833.
3 | Monday	5 54	5 43	8 0	Modocs executed, 1873.
4 | Tuesday	5 55	5 42	8 47	R. B. Hayes born, 1822.
5 | Wednesday	5 56	5 40	9 36	Dalton Gang destroyed, 1892.
6 | Thursday	5 56	5 39	10 29	Tennyson died, 1892.
7 | Friday	5 57	5 38	11 22	Stonewall Jackson app'td Maj. Gen., 1861.
8 | Saturday	5 57	5 37	morn	Battle of Perryville, Ky., 1862.

41.) 18th Sunday after Trinity.	Day's length, 11h. 38m.			
9 | Sunday	5 58	5 36	0 17	Howell Cobb died, 1868.
10 | Monday	5 59	5 34	1 13	Stonewall Jackson app'td Lieut. Gen., 1862.
11 | Tuesday	5 59	5 33	2 10	D. R. Jones app'td Maj. Gen., 1862.
12 | Wednesday	6 0	5 32	3 8	Gen. R. E. Lee died, 1870.
13 | Thursday	6 1	5 31	4 4	J. C. Pemberton app'td Lieut. Gen., 1862.
14 | Friday	6 1	5 30	5 4	Francis L. Lee born, 1734.
15 | Saturday	6 2	5 29	6 7	Police Chief Hennessy murd'd in N O 1890

42.) 19th Sunday after Trinity.	Day's length, 11h. 25m.			
16 | Sunday	6 3	5 28	sets	John Brown's raid, 1859.
17 | Monday	6 3	5 27	6 50	Battle of Saratoga, 1777.
18 | Tuesday	6 4	5 26	7 44	Yorktown Centennial, 1881.
19 | Wednesday	6 5	5 25	8 45	Moscow evacuated, 1812.
20 | Thursday	6 5	5 24	9 52	Battle of Navarino, 1827.
21 | Friday	6 6	5 23	10 58	Battle at Ball's Bluff, Va., 1861.
22 | Saturday	6 7	5 22	morn	S. G. French app'td Maj. Gen., 1862.

43.) 20th Sunday after Trinity.	Day's length, 11h. 13m.			
23 | Sunday	6 8	5 21	0 6	Surrender of Metz, 1870.
24 | Monday	6 8	5 20	1 12	Daniel Webster died, 1852.
25 | Tuesday	6 9	5 19	2 17	Battle of Balaklava, 1854.
26 | Wednesday	6 10	5 18	3 18	Jackson's Stat. at Richmond unveiled 1875.
27 | Thursday	6 10	5 17	4 18	Battle at Hatcher's Run, 1864.
28 | Friday	6 11	5 16	5 20	Battle of White Plains, 1776.
29 | Saturday	6 12	5 15	rises	N. B. Forrest died, 1877.

44.) 21st Sunday after Trinity.	Day's length, 11h. 1m.			
30 | Sunday	6 13	5 14	5 53	John Adams born, 1735.
31 | Monday	6 13	5 14	6 39	All Hallow Eve.

Jewish Calendar—5659.—October 17, Heshvan, first day.

11th Month.

NOVEMBER.

30 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Last Quarter.....	6d.	8h.	28m.	Morn.	First Quarter.....	20d.	11h.	5m.	Morn.
New Moon.....	13d.	6h.	20m.	After.	Full Moon.....	27d.	10h.	39m.	After.

Days of Month and Week.		Sun		Sun		Moon		CHRONOLOGY OF IMPORTANT EVENTS.
		rises.	h.	sets.	h.	r.	s.	
1	Tuesday	6	14	5	13	7	28	All Saints' Day.
2	Wednesday	6	15	5	12	8	20	J. C. Breckenridge app'td Brig. Gen., 1861
3	Thursday	6	15	5	11	9	13	W. C. Bryant born, 1794.
4	Friday	6	17	5	10	10	7	D. H. Maury app'td Maj. General, 1862.
5	Saturday	6	17	5	10	11	2	B. F. Butler born, 1818.

45.) 22d Sunday after Trinity.

Day's length, 10h. 51m.

6	Sunday	6	18	5	9	11	58	W. G. Hardee died, 1873.
7	Monday	6	19	5	8	morn		Battle at Belmont, Mo., 1861.
8	Tuesday	6	20	5	8	0	54	J. G. Walker app'td Maj. Gen. 1861.
9	Wednesday	6	20	5	7	1	51	Geo. B. Crittenden app'td Maj. Gen., 1861.
10	Thursday	6	21	5	7	2	46	Luthur born, 1483.
11	Friday	6	22	5	6	3	48	Gen. Wool died, 1869.
12	Saturday	6	23	5	6	4	54	Atlanta evacuated, 1864.

46.) 23d Sunday after Trinity.

Day's length, 10h. 41m.

13	Sunday	6	24	5	5	6	2	Meteoric showers of 1833 and 1837.
14	Monday	6	25	5	5	sets		Charles Carroll died, 1832.
15	Tuesday	6	25	5	4	6	32	Kepler died, 1630.
16	Wednesday	6	26	5	4	7	40	Battle Campbell Station, Tenn., 1863.
17	Thursday	6	27	5	3	8	48	National Cemetery at Gettysburg, 1863.
18	Friday	6	28	5	3	9	57	Etna eruption, 1832.
19	Saturday	6	29	5	2	11	5	John P. Hale died, 1873.

47.) 24th Sunday after Trinity.

Day's length, 10h. 32m.

20	Sunday	6	30	5	2	morn		Eruption Mt. Vesuvius, 1857.
21	Monday	6	31	5	2	0	11	Voltaire died, 1694.
22	Tuesday	6	31	5	1	1	11	Bombardment of Pensacola, 1861.
23	Wednesday	6	32	5	1	2	12	Parkman murder, 1849.
24	Thursday	6	33	5	1	3	12	Battle Lookout Mountain, Tenn., 1863.
25	Friday	6	34	5	1	4	13	Battle Missionary Ridge, Tenn., 1863.
26	Saturday	6	35	5	1	5	12	Great tempest, 1703.

48.) 1st Sunday in Advent.

Day's length, 10h. 25m.

27	Sunday	6	36	5	1	6	10	Geo. B. Crittenden died, 1880.
28	Monday	6	36	5	0	rises		Cardinal Wolsey died, 1530.
29	Tuesday	6	37	5	0	6	12	Ohio admitted, 1802.
30	Wednesday	6	38	5	0	7	6	President Davis elected for 6 years, 1861.

Jewish Calendar—5659—November 15, Kislev, first day.

12th Month.

DECEMBER.

31 Days.

Calculated for the Latitude of the Southern States.

Moon's Phases.

Last Quarter.....	6d. 4h. 6m.	Morn.	First Quarter.....	19d. 9h. 22m.	After.
New Moon.....	13d. 5h. 43m.	Morn.	Full Moon.....	27d. 5h. 39m.	After.

Days of Month and Week.	Sun rises.	Sun sets.	Moon r. & s.	CHRONOLOGY OF IMPORTANT EVENTS.
	h. m.	h. m.	h. m.	

1 Thursday	6 39	5 0	8 0	Siege of Quebec, 1775.
2 Friday	6 40	5 0	8 54	John Brown executed, 1859.
3 Saturday	6 41	5 0	9 48	Samuel Cooper died, 1876.

49.) 2d Sunday in Advent.

Day's length, 10h. 19m.

4 Sunday	6 41	5 0	10 43	N. B. Forrest appt'd Maj. Gen., 1863.
5 Monday	6 42	5 1	11 38	Mozart died, 1791.
6 Tuesday	6 43	5 1	morn	President Davis died, 1889.
7 Wednesday	6 44	5 1	0 33	Marshal Ney shot, 1815.
8 Thursday	6 44	5 1	1 30	Eli Whitney born, 1765.
9 Friday	6 45	5 1	2 33	Sumter bombarded, 1863.
10 Saturday	6 46	5 1	3 38	Senator Clay of Alabama resigned, 1860.

50.) 3d Sunday in Advent.

Day's length, 10h. 15m.

11 Sunday	6 46	5 1	4 47	Great fire in Charleston, 1861.
12 Monday	6 47	5 2	5 56	Federals in Lafayette, Ga., 1863.
13 Tuesday	6 48	5 2	sets	Battle of Fredericksburg, 1862.
14 Wednesday	6 48	5 2	6 27	Washington died, 1799.
15 Thursday	6 49	5 3	7 40	Battle of Nashville, Tenn., 1864.
16 Friday	6 50	5 3	8 50	Gen. A. H. Terry died, 1890.
17 Saturday	6 50	5 3	10 0	Gen. Bolivar died, 1830.

51.) 4th Sunday in Advent.

Day's length, 10h. 13m.

18 Sunday	6 51	5 4	11 6	Battle Lexington Ky., 1862.
19 Monday	6 51	5 4	morn	Battle of Holly Springs, 1862.
20 Tuesday	6 52	5 5	0 5	South Carolina seceded, 1860.
21 Wednesday	6 52	5 5	1 6	Davis Monument Ass'n organized, 1889.
22 Thursday	6 52	5 6	2 7	Pilgrims landed, 1620.
23 Friday	6 53	5 6	3 6	Henry W. Grady died, 1889.
24 Saturday	6 54	5 7	4 3	Thackery died, 1863.

52.) Christmas.

Day's length, 10h. 13m.

25 Sunday	6 54	5 7	4 59	Christmas Day.
26 Monday	6 54	5 8	5 53	Texas admitted, 1845.
27 Tuesday	6 55	5 9	rises	St. John Evangelist.
28 Wednesday	6 55	5 9	5 52	Iowa admitted, 1846.
29 Thursday	6 55	5 10	6 47	Goldsmith born, 1728.
30 Friday	6 56	5 11	7 41	Battle of Savannah, 1778.
31 Saturday	6 56	5 12	8 35	West Virginia admitted, 1862.

Jewish Calendar.—5659.—December 14, Tebeth, first day.

A Few Remarks on Raising Vegetables for Shipping.

Truck Farming or the raising of Vegetables for shipping to the Northern and Western markets is a very important and growing industry. With better facilities for placing our truck on the markets, a greater knowledge acquired by past experience, of the best methods of packing, etc., the natural advantages of our climate, is making this business a very profitable one.

Almost every kind of Vegetables are shipped from here, but Beans, Cucumbers, Beets, Tomatoes, Cabbage and Peas form the bulk of shipment. For Beans, the Dwarf Wax Improved Valentine "Best of All," Extra Early Refugee, are principally planted for shipping purposes; the last two carry well and find ready sale. The Wax varieties do well in a dry season, but in a wet one they are very apt to spot, which makes them unfit for shipping. The Wardwell's Kidney Wax and Dwarf Flageolet have the preference amongst the dwarf sorts. The Flageolet Wax Pole is the best kind and follows the dwarf varieties in close succession. If they have had a good season to grow, so they arrive in good order at destination, they will sell higher than any other variety. The "Crease Back,"—a green podded Pole Bean introduced here by the late Richard Frotscher, is well adapted for shipping. It is very early and will follow the Dwarf Beans closely in maturing. Thousands of bushels of green pods are shipped from here to the Western markets. They are generally stenciled "Mobile Beans," which name is wrongly applied. Very few of this variety are planted at that place.

In the way of Cucumbers, the Improved White Spine and New Orleans Market are the best varieties, as they bear abundantly, keep their color better; and are superior for shipping to any other. We have been supplying the largest growers in this vicinity in that line with seed, the stock of which cannot be surpassed in quality. Of Beets, only the Dark Red Blood Turnip or the Egyptian should be planted for shipping purposes. The Egyptian is a very quick growing variety, and should not be sown quite so early as the Blood Turnip, which ought to be sown in September and October; for the former variety January is time enough. The strain of Beets which we have been selling for years is raised for us in Connecticut; it is dark red, very early and cannot be surpassed for shipping purposes. Several new varieties have come into cultivation, some lighter in color, like the Lentz and Dewings; they are a trifle earlier, but do not come up to the strain of Extra Early Dark Blood Turnip we are selling. The Eclipse is another good variety but is smaller. Also introduced by the late Richard Frotscher.

For Tomatoes, the Extra Early Dwarf comes in bearing first, but should be planted only for the first crop, as when large varieties come in the market the former do not sell as well. Great improvements have been made of late years in Tomatoes; the varieties raised and introduced by Livingston's Sons are perfect, and hardly any improvement can be made on such varieties as the Paragon, Favorite, Acme and Beauty. New Orleans is not a good point to ship Tomatoes from, as they hardly ever arrive at destination in good condition. Along the Jackson railroad, where the land is more sandy, a better article is raised for shipping.

Lettuce is shipped quite extensively; the New Orleans Improved Passion is used principally, and cannot be excelled for that purpose by any other variety.

The Onion crop is one of the surest and most profitable. From Creole seed, failure to make a crop is almost unknown.

Early Potatoes pay well, but this is one of the most uncertain crops here.

Cabbage is by far the most important and profitable crop we have. It is the mainstay of the truck farmer.

The Musk Melon is also usually a good paying crop. In favorable seasons, when the quality is good, the demand is large and prices high.

Egg Plants have been of late years, shipped in large quantities.

Carrots and Turnips ship well, and paying prices generally to be had.

Radishes have also proved to be a profitable shipping crop.

Gardeners and others who contemplate raising vegetables for shipping are invited to give us a call. From the fact that all staple articles are raised for us by contract, in such sections best suited to mature the varieties we need for our climate, and the interest we take in the seed business, coupled with a thorough knowledge of the same, enables us to assist in making selections of seeds for the purpose. The interest of our customers and ours are identical. Our stock is the best selected and the largest in the South.

We will fill all orders for fruit trees; a list of the choice leading varieties will be found in this Catalogue.

We desire to call special attention to Letters on Pecan culture to be found herein. An interesting treatise on pecan growing by Mr. Wm. Nelson and price list of budded trees will be sent to all applicants.

We have a choice lot of orange trees on Trifoliata Stock all sizes and prices; a list of varieties will be found in this Catalogue.

We will also fill all orders for plants, trees and shrubs, roses, greenhouse-plants, etc. Low prices and satisfaction guaranteed.

We aim to supply our patrons with everything needed for the garden. Seeds, trees, plants, horticultural tools and implements. Money can be saved by having your orders all filled at one house, time gained, and the trouble of sending orders to several different houses avoided.

The Vegetable Garden.

The size depends upon the purposes for which it is intended; whether the family is large or small, and the time which can be devoted to its cultivation. The most suitable soil for a garden is a light loam. When the soil is too heavy, it ought to be made light by applying stable manure and working up the ground thoroughly. Trenching, as done in Europe, or North, is not advisable, at least where there is any cocoa, as by trenching the roots of this pest will get so deeply incorporated with the soil that trouble will be met with afterwards to get rid of it. Exposure towards the east is desirable. If there are one or more large trees in the garden, or on the immediate outside, their shade can be used in which to sow Celery, Cabbage and other seeds during the hot summer months, which will be an advantage. The seed beds for this purpose should be so arranged as to receive only the morning and evening sun. It is of the greatest importance that the ground should be well drained, otherwise it will be impossible to raise good vegetables. The most reliable manure for general purposes is well decomposed stable or barn yard manure. Cow manure will suit best for light, sandy soil, and horse manure for heavy, stiff clay lands. For special purposes, Peruvian Guano, Commercial Fertilizer, Raw Bone, Cotton Seed Meal and other commercial manures may be employed with advantage. Of late years most gardeners who work their land with a plow, use Cow Peas as a fertilizer with excellent results. They are sown broad-cast at the rate of $1\frac{1}{2}$ bushels to the acre, and when large enough they are turned under. When the land is very sandy, Cotton Seed Meal has the most lasting effect. For quick growing crops, such as Melons, Cucumbers, etc., the Commercial Fertilizer and Guano applied in the hills are very good. Soap Suds are good for Celery; it is astonishing to perceive the difference in the size of those stalks which are watered every few days with the suds, and others on the same ground which are not. Wood ashes are best for Peas, either used as top dressing when the Peas just come out of the ground, or else sprinkled in the rows when planted. The New Orleans market gardeners raise as fine vegetables as can be produced anywhere; in fact, some varieties cannot be excelled, and very few gardeners use anything but stable manure which can be had for the hauling.

Rotation of crops is another important item. Beets, Carrots and other roots should not be grown in succession on the same ground, but should be changed to those which grow above ground, such as Lettuce, Beans, Peas, etc. Good seed, good ground and good cultivation are essential in order to raise good vegetables. When plants are up, the ground should be stirred frequently; weeds ought not to be suffered to go into seed, but should be destroyed as soon as they appear. Hoeing and working the young crops during dry weather is very beneficial, because the weeds are then easily killed, and hoeing the ground will make it retain moisture better than if it were left alone.

Sowing Seeds.

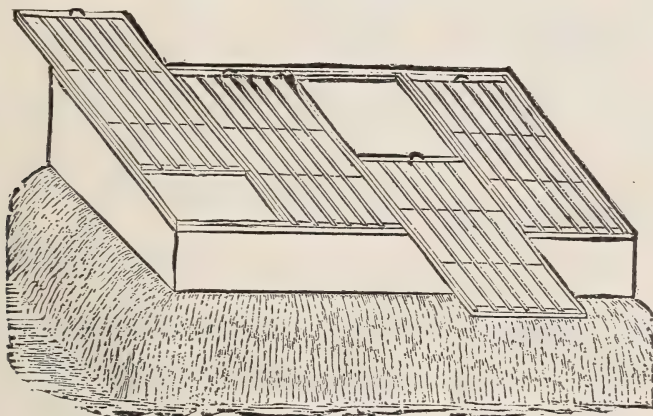
Some seeds are sown at once where they are to remain and mature. Others are sown in seed beds and transplanted afterwards. Seeds should be covered according to their sizes, a covering of earth twice the size of the seed is about the maximum. Some seeds, such as Beans, Corn and Peas, can be covered from one to two inches, and they will come up well. Here is a difference again: Wrinkled Peas and Sugar Corn have to be covered lighter and more carefully than Marrowfat Peas or the common varieties of Corn. It depends upon the nature of the soil, season of the year, etc. For instance, in heavy wet soils seeds have to be covered lighter than in sandy light ground. Seeds which are sown during summer in the open ground, such as Beets and Carrots, should be soaked over night in water and rolled in ashes or plaster before sowing; they will come up quicker. When they are sown in a seed bed, the ground should be light enough not to bake after a rain. Some varieties of seeds require shade when sown during summer, such as Cauliflower, Celery and Lettuce. Care should be taken to have the shade at least three feet from the ground, and shade only after the sun has been on the bed for two or three hours; and remove again early in the afternoon so the plants may become sturdy. If too much shaded they will be drawn up, long-legged, and not fit to be set out in the open ground. The most successful Cabbage planters in this neighborhood sow their seeds in the open ground, towards the end of July and during August, and give them no shade, but water and keep the ground moist from the day of sowing until the plants are

transplanted. Seeds should be sown thinly in the seed bed. If plants come up too thickly they are apt to damp off.

Lettuce seed should be sprouted during the hot months before sowing, according to directions given for June.

To sow Turnips on a large scale during the late summer and early fall months, the ground should be prepared in advance, and the seed sown just before or during the rain. Small pieces of ground, of course, can be sown at any time and watered afterwards. For covering all kinds of seeds a fork is preferable to a rake; with either implement care must be taken not to cover the seeds too deep. Beans, Peas and Corn are covered with the hoe. Some fine seeds, such as Thyme and Tobacco, are covered enough when pressed with the back of the spade to the ground. The seedsman is often blamed for selling seeds which have not come up when the same are perfectly good, but, perhaps, through ignorance, the party by whom they were sown placed them too deep or too shallow in the ground, or the ground may have been just moist enough to swell the seeds, and they failed to come up. At other times washing rains after sowing beat the ground and form a crust that the seeds are not able to penetrate, or if there is too much manure it will burn the seeds and destroy their vitality.

When seeds, such as Beans, Cucumbers, Melons and Squash, are planted before it is warm enough, they are very apt to rot if it rains.



The Hot Bed.

Owing to the open winters in the South, hot beds are not so much used as in the North, except to raise such tender plants as Eggplants, Tomatoes and Peppers. There is little forcing of vegetables done here, except as regards Cucumbers and Lettuce; and if we do not have any hard frosts, the latter does better in the open ground than under glass. To make a hot bed is a very simple thing. Anyone who has the use of tools can make the wooden frame, the sashes can be obtained from any sash factory. We consider a wooden frame from five to six feet wide and ten feet six inches long a very good size. It should be at least six inches higher at the back than in the front, and covered by three sashes $3\frac{1}{2} \times 5$ feet. The manure ought not to be over a month old; it should be thrown together in a heap, and when commencing to heat, be worked over with a fork, and the long and short manure evenly mixed. In this State the ground is generally low, and to retain the heat of the manure for a long time, it is best to put the manure on top of the ground—that is, make a bank two feet longer and two feet wider than the frame. Keep the edges straight and the corners firm; when thrown up about eighteen inches trample the manure down to six or eight inches, then put another layer of eighteen inches and trample down again; place thereon the frame and sash, and fill in six inches of good earth. After about five days stir the ground to kill the weeds which may have come up, then sow the seeds. In lower Louisiana the ground is too wet to dig out eighteen inches deep, throw in the manure and trample down as recommended in the North; by a few hard rains, such as we frequently have in winter, the manure would become so soaked beneath the ground that the heat would be gone. Another advantage when the frame is put above the ground, is, that it will go down with the manure gradually, and there remains always the same space between the glass and the ground. If the ground is dug out and the manure put into the frame, the ground will sink so low after a short time that the sun will have little effect upon it, and plants will become spindly.

Seeds requisite to produce a given number of Plants and sow a given amount of ground.

	Quantity per acre.		Quantity per acre.
Artichoke, 1 oz to 500 plants.....	$\frac{1}{4}$ lb	Hemp	$\frac{1}{2}$ bu
Asparagus, 1 oz to 200 plants.....	5 lbs	Kale, 1 oz to 3,000 plants.....	4 oz
Barley	2 $\frac{1}{2}$ bu	Kohl-Rabi, 1 oz to 200 feet of drill.....	1 $\frac{1}{2}$ lbs
Beans, dwarf, 1 quart to 150 feet of drill.....	$\frac{1}{4}$ bu	Leek, 1 oz to 250 feet of drill.....	4 lbs
Beans, pole, 1 quart to 200 hills.....	$\frac{1}{2}$ bu	Lettuce, 1 oz to 250 feet of drill.....	3 lbs
Beet, garden, 1 oz to 100 feet of drill.....	10 lbs	Melon, Musk, 1 oz to 100 hills.....	1 $\frac{1}{4}$ lbs
Beet, Mangel, 1 oz to 150 feet of drill.....	6 lbs	Melon, Water, 1 oz to 25 hills.....	1 $\frac{1}{2}$ lbs
Broccoli, 1 oz to 3000 plants.....	5 oz	Nasturtium, 1 oz to 50 feet of drill.....	10 lbs
Broom Corn.....	10 lbs	Oats.....	2 $\frac{1}{2}$ bu
Brussels Sprouts, 1 oz to 3,000 plants.....	5 oz	Okra, 1 oz to 50 feet of drill.....	10 lbs
Buckwheat.....	$\frac{1}{2}$ bu	Onion Seed, 1 oz to 200 feet of drill.....	4 lbs
*Cabbage, 1 oz to 3,000 plants.....	5 oz	“ “ for transplanting.....	1 $\frac{1}{2}$ lbs
Carrot, 1 oz to 250 feet of drill.....	2 $\frac{1}{2}$ lbs	“ “ for sets.....	30 lbs
*Cauliflower, 1 oz to 3,000 plants.....	5 oz	Onion Sets, 1 quart to 20 feet of drill.....	8 bu
*Celery, 1 oz to 10,000 plants.....	4 oz	Parsnip, 1 oz to 250 feet of drill.....	5 lbs
Clover, Alsike and White Dutch.....	6 lbs	Parsley, 1 oz to 250 feet of drill.....	8 lbs
“ Lucerne, Large Red and Crimson.....		Peas, garden, 1 quart to 160 feet of drill.....	1 $\frac{1}{2}$ bu
“ Trefoil.....	8 lbs	“ field.....	2 $\frac{1}{2}$ bu
“ Medium.....	10 lbs	Pepper, 4 oz to 1,500 plants.....	4 oz
*Collards, 1 oz to 2,500 plants.....	6 oz	Potatoes.....	10 bu
Corn, sweet, 1 quart to 500 hills.....	8 qts	Pumpkins, 1 quart to 800 hills.....	4 qts
Cress, 1 oz to 150 feet of drill.....	8 lbs	Radish, 1 oz to 150 feet of drill.....	8 lbs
Cucumber, 1 oz to 80 hills.....	1 $\frac{1}{4}$ lbs	Rye.....	1 $\frac{1}{2}$ bu
Egg Plant, 1 oz to 2,000 plants.....	3 oz	Salsify, 1 oz to 60 feet of drill.....	8 lbs
Endive, 1 oz to 300 feet of drill.....	3 lbs	Spinach, 1 oz to 150 feet of drill.....	10 lbs
Flax, broadcast.....	$\frac{1}{2}$ bu	Summer Savory, 1 oz to 500 feet of drill.....	2 lbs
Gourd, 1 oz to 25 hills.....	2 $\frac{1}{2}$ lbs	Squash, summer, 1 oz to 40 hills.....	2 lbs
Grass, Blue Kentucky.....	2 bu	“ winter, 1 oz to 10 hills.....	3 lbs
“ Blue English.....	1 bu	Tomato, 1 oz to 3,000 plants.....	3 oz
“ Hungarian and Millet.....	$\frac{1}{2}$ bu	Tobacco, 1 oz to 5,000 plants.....	2 oz
“ Mixed Lawn.....	3 bu	Turnip, 1 oz to 260 feet of drill.....	1 $\frac{1}{2}$ lbs
“ Orchard, Perennial Rye, Red Top, Fowl Meadow & Wood Meadow.....	2 bu	Vetches.....	2 bu
Garlic, bulbs, 1 lb to 10 feet of drill.....	2 bu	Wheat.....	1 to 2 bu

*The above calculations are made for sowing in the spring; during the summer it requires double the quantity to give the same amount of plants.

Number of Plants or Trees to the Acre at given distances.

Dis. apart.	No. Plants.	Dis. apart.	No. Plants.	Dis. apart.	No. Plants.	Dis. apart.	No. Plants.
$\frac{1}{2}$ foot.....	174,240	3 feet by 3 feet.....	4,840	6 feet.....	1,210	12 feet.....	302
1 foot.....	43,560	4 feet by 1 foot.....	10,888	7 feet.....	889	15 feet.....	193
$1\frac{1}{2}$ feet.....	19,360	4 feet by 2 feet.....	5,444	8 feet.....	680	18 feet.....	134
2 feet.....	10,890	4 feet by 3 feet.....	3,629	9 feet.....	573	20 feet.....	108
$2\frac{1}{2}$ feet.....	6,969	4 feet by 4 feet.....	2,722	10 feet.....	435	25 feet.....	69
3 feet by 1 foot.....	14,520	5 feet by 5 feet.....	1,742	11 feet.....	360	30 feet.....	49
3 feet by 2 feet.....	7,260						

Standard Weight of Various Articles.

	per bush	48 lbs		per bush	54 lbs
Apples.....	“	22	Onions.....	“	60
“ dried.....	“	48	Peas.....	“	8
Barley.....	“	60	Plastering Hair.....	“	50
Beans.....	“	48	Rape.....	“	56
Buckwheat.....	“	46	Rye.....	“	14
Broom Corn.....	“	14	Red Top Seed.....	“	50
Blue Grass, Kentucky.....	“	24	Salt, Coarse.....	“	56
“ “ English.....	“	20	Salt, Michigan.....	“	56
Bran.....	“	60	Sweet Potatoes.....	“	45
Canary Seed.....	“	46	Timothy Seed.....	“	58
Castor Beans.....	“	60	Turnip.....	“	60
Clover Seed.....	“	56	Wheat.....	“	200
Corn, shelled.....	“	70	Beef and Pork, per bbl net.....	“	196
“ on ear.....	“	50	Flour, per bbl net.....	“	200
Corn Meal.....	“	22	White Fish and Trout, per bbl net.....	“	280
Charcoal.....	“	80	Salt, per bbl.....	“	220
Coal, mineral.....	“	40	Lime, per bbl.....	“	4 $\frac{1}{2}$
Cranberries.....	“	28	Hay, well settled, per cubic foot.....	“	22
Dried Peaches.....	“	56	Corn, on cob, in bin.....	“	45
Flax Seed.....	“	44	“ shelled.....	“	48
Hemp Seed.....	“	48	Wheat,.....	“	25 $\frac{1}{2}$
Hungarian Grass Seed.....	“	60	Oats,.....	“	38 $\frac{1}{2}$
Irish Potatoes, heaping measure.....	“	50	Potatoes,.....	“	95
Millet.....	“	38	Sand, dry,.....	“	135
Malt.....	“	32	Clay, Compact,.....	“	169
Oats.....	“	33	Marble.....	“	5,616
Osage Orange.....	“	14	Seasoned Beech Wood, per eord.....	“	6,960
Orchard Grass.....	“		“ Hickory.....	“	

DESCRIPTIVE CATALOGUE OF VEGETABLE SEED.

ARTICHOKE.

ARTICHAUT (Fr.), ARTISCHOKE (Ger.), ALCACHOFA (Sp.)

Large Green Globe. This is a very popular vegetable in the South, and much esteemed by the native as well as the foreign population from the South of Europe. It is extensively cultivated for the New Orleans market. It is best propagated from suckers, which come up around the large plants. Take them off during the fall and early winter months; plant them four feet apart each way. Every fall the ground should be manured and spaded or plowed between them; at the same time the suckers should be taken off, if planted by seed. Sow in drills during winter or early spring, three inches apart and one foot from row to row, cover with about one-half inch of earth. The following fall the plants can be transplanted and cultivated as recommended above. The seeds we offer are imported by us from Italy and of superior quality; we can also furnish sprouts or plants in the fall of the year at 25c. per doz., \$1.25 per 100, \$12.50 per 1000.



Green Globe Artichoke.

ASPARAGUS.

ASPERGE (Fr.), SPARGEL (Ger.), ESPARAGUS (Sp.)

Conover's Colossal. The Asparagus is not extensively cultivated in the South; not that it is not liked well enough, but from the fact that it does not succeed as well as in more Northern latitudes. It seems that they are short-lived, the roots giving out soon or throwing up very small shoots.

The ground should be well manured and prepared before either the roots or seeds are planted. For this climate the sowing of seed is preferable. Roots are generally imported from the North, and we find that the roots raised here, one year old, are as strong as those received from the North, three years old. Plant the seed in early spring. Soak over night in water; plant in rows, or rather hills, one foot apart and two feet between, or three if to be cultivated with a plow; put from four to five seeds in each hill; when well up thin out to two plants. The following winter, when the stalks are cut off cover with a heavy coat of well-rotted manure and a sprinkling of salt; fishbrine will answer the same purpose. In the spring fork in manure between the rows, and keep clean of weeds. The same treatment should be repeated every year. The bed should not be cut before being three years established. Care must be taken not to cut the stalks too soon in the fall of the year—not until we have had a frost. If cut before, it will cause the roots to throw up young shoots, which will weaken them. Roots 75c per 100; \$6.00 per 1000.

BUSH BEANS.

CULTURE.

Place in rows eighteen inches apart; drop a bean every two or three inches. Plant from end of February, and for succession, every two or three weeks to May. Bush Beans planted in this latitude during June and July, will not produce much. August and September are good months in which to plant again; they will produce abundantly till killed by the frost. Do not cover the seeds more than two inches.

POLE BEANS.

Lima Beans should not be planted before the ground has become warm in spring. Strong poles ought to be set in the ground from four to six feet apart and the ground drawn around them before the seed is planted. It is always best to plant after a rain and with the eye of the bean down. The other varieties can be planted flat; and not more than three or four feet apart, and hilled after they are up. Do not cover the seeds more than two inches; one inch is enough for the Southern Prolific and Crease Back.

BEANS.

(Dwarf. Snap or Bush.)

HARICOT (Fr.), BOHNE (Ger.), FRIJOLENANO (Sp.)*Pride of Newton.**Early Mohawk Six Weeks.**Early Yellow Six Weeks.**White Kidney.**Red Kidney.**Best of All.**Improved Valentine.**Extra Early Refugee.**Improved Prolific Dwarf German Wax.**Grenell's Improved Golden Wax.**Detroit or Rust Proof Wax Beans.**Dwarf Butter Wax Beans.**Wardwell's Dwarf Kidney Wax.**Dwarf Flageolet Wax.**Henderson's Bush Lima Beans.**Burpee's Bush Lima.**Keeney's Rustless Golden Wax Bean.**Thorburn's Prolific Market Bean.*

Pride of Newton. This is a robust strong growing bean with long flat pods, which are light green. It is quite early and productive. The bean is similar to the Yellow Six Weeks in color, but much hardier.

Early Mohawk Six Weeks. A long podded variety, and very hardy. It is used to a large extent for the market for the first planting; very productive.

Early Yellow Six Weeks. This is the most popular sort among market

gardeners. Pods flat and long; a very good bearer, but not so good for shipping as the Mohawk or Valentine.

White Kidney. A good strong growing variety, not much planted.

Red Kidney. A kind largely planted for the New Orleans Market. It is a coarse growing variety, and much used for shelling when the pods turn yellow, so that the beans are well developed, but yet soft.



Pride of Newton Bean.



Dwarf Golden Wax Beans.

Best of All. A variety from Germany of great merit, introduced by the late Richard Frotscher. It is green podded, long and succulent; very prolific and well flavored. Excellent for shipping and family use. Although not quite so early as the Mohawk, it is of superior quality for shipping, and therefore almost the only kind planted here for that purpose. The cut is a good representation as it grows; it shows only two-thirds of its natural size. Cannot be too highly recommended.

Improved Valentine. This variety has all the good qualities of the old Valentine; only it is ten days earlier, a great consideration when planted for the market; it has taken the place of the old variety of Valentine.

Extra Early Refugee. Is an improvement on the well-known old Refugee. Very early and prolific. Owing to its good qualities, it has become a favorite with market gardeners for shipping. Pods round and fleshy.

Improved Prolific Dwarf German Wax. This variety is a great improvement

on its parent, the Dwarf German Wax. Pods are longer and more productive, with good qualities of the old kind, which was the first Wax Bean introduced here from Germany.

Grenell's Improved Rust Proof Golden Wax Beans. An improvement on the Dwarf Golden Wax Beans; the seed is identically the same in color as that kind. The pods are straight, long, and fleshier than Golden Wax, superior in quality and positively "*Rust Proof*," quite an object with us here in the South, when we often have rainy weather in the Spring, which is injurious to most wax beans. The originator also claims it to be more prolific and harder than the ordinary Golden Wax Bean.

We had this bean thoroughly tried and found it so superior to the ordinary Golden Wax, that we have concluded to drop the last named variety from our list.

Detroit or Rust Proof Wax Beans. This splendid wax bean is of recent introduction, and is very productive and hardy; pods straight, flat and some-



what broader than the Dwarf Golden Wax. The beans, when well grown, are of a beautiful golden yellow. The originator claims that when tried side by side with the majority of wax beans, it had never "*spotted or rusted*" while most of the other varieties were unsalable. He claims it to be the best bean for shipping.

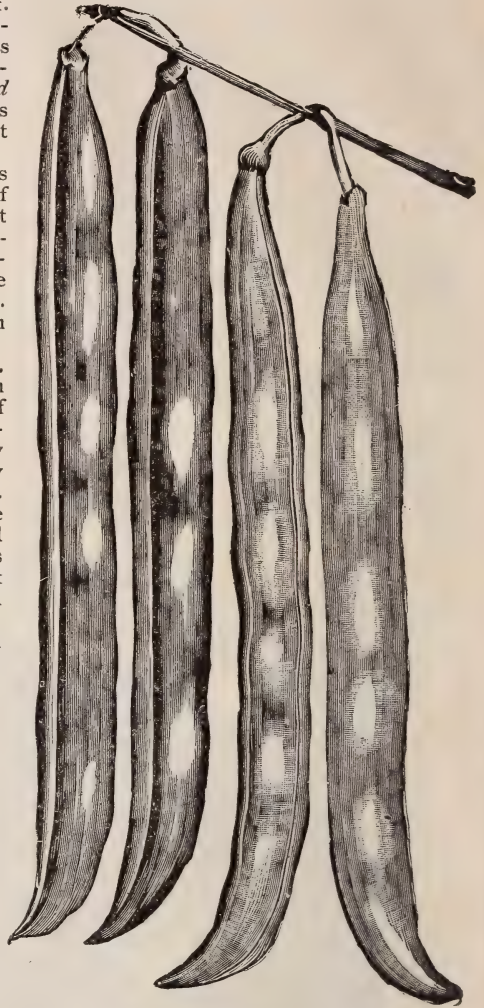
Dwarf Butter Wax Beans. This variety is also sold under the name of "*Bismarck*" and "*Rust Proof Wax*." It is very early, an excellent bearer, pods similar in shape to the Wardwell's Dwarf Kidney Wax; they are very brittle and of fine flavor. Not as liable to rust as other kinds. The seed is of a dark purple color when dried.

Wardwell's Dwarf Kidney Wax. Undoubtedly the best dwarf Wax Bean in cultivation; it is quite early; the pods are of similar shape as the Golden Wax, but longer; color of a beautiful golden yellow. They are very prolific and hardy, surpassing any other Dwarf Wax Bean that we know of. The color of the bean is somewhat like the Golden Wax, but more kidney-shaped and more spotted with dark purple. It has done best here among the Dwarf Wax Beans. Of all the many new kinds we had tried, we found none to excel it.

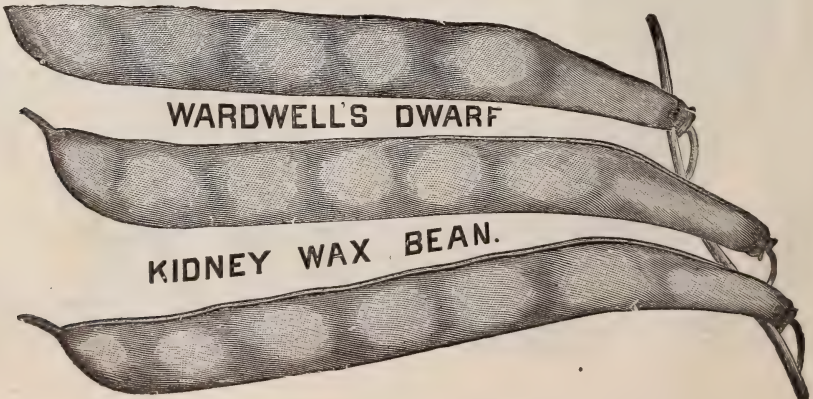
Dwarf Flageolet Wax. A German variety which figures as *Perfection Wax*, also *Scarlet Flageolet Wax* in some catalogues. It is a robust growing sort with large fine yellow pods. For several years we have tried to introduce it amongst the gardeners who still give the *Wardwell's Kidney* the preference.

Henderson's Bush Lima Beans. This is a dwarf Butter Bean which requires no poles, it grows from 18 to 24 inches high. It is early and productive. It should be called *Dwarf Carolina* or *Sewee Bean*, as the pods are the size of that variety. Recommend same for family use, or where it is difficult to obtain poles.

Burpee's Bush Lima. The pods are of same size as the Large Pole Lima and of same flavor. It is a stronger grower than the Henderson's Bush Lima.



Best of All Beans, $\frac{2}{3}$ natural size.



Keeney's Rustless Golden Wax Bean. This is the long-looking for bean, combining hardness and productiveness with fine quality.

A strong growing bush variety of remarkable vigor and freedom from rust. It sends out short tendrils on which pods are formed in addition to those near the central stalk of the plant, which accounts for its wonderful productiveness, amounting, under favorable conditions, from 100 to 150 fold.

The pods are meaty and well filled, thick-flat when young, and semi-round later; of rich yellow color and fine quality, and entirely stringless even when large enough to shell. If the pods are picked as fast as formed, the plant continues to furnish a good supply for an unusually long season.

This bean was brought out two years ago. Properly speaking, it is not a Bush Bean, but a half climber; grows 6 to 8 feet high; should have some bush to run up on. Other



wise the qualities are as described by the introducer.

Thorburn's Prolific Market Bean. This Bean was introduced here from Germany a few years ago. The introducer claims it to be an exceedingly vigorous and healthy grower and enormously productive; the pods being borne in clusters and as many as 35 or 40 beans on each plant. In earliness it is with the Mohawk. It is rust-proof, the seeds are black, the pods are of a light green color, long and *perfectly round*, solid-fleshed and of very soft marrow. For PRODUCTIVENESS, SOLIDITY OF FLESH AND ROUNDNESS OF POD, it excels any bean now in cultivation.

We think this variety will become one of the leading bush beans for the New Orleans Market gardeners for shipping as well as for family use. Give it a trial.



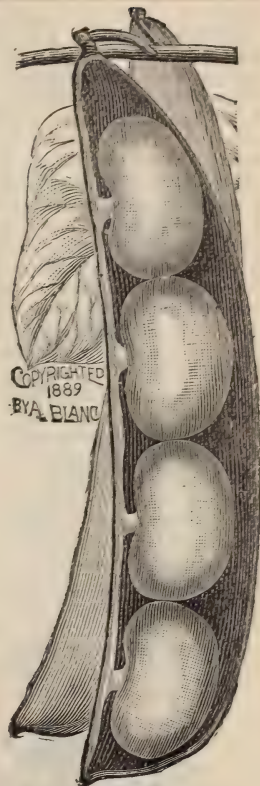
Thorburn's Prolific Market Bean.



Burpee's Bush Lima.



Improved Valentine.



Henderson's Dwarf Lima.

BEANS.

POLE OR RUNNING.

HARICOTS A RAMES (Fr.), STANGEN BOHNEN (Ger.), FRIGOLO VASTAGO (Sp.)

Large Lima.

Carolina or Sewee.

Southern Willow-leaved Sewee or Butter

Dutch Case Knife.

Southern Prolific.

Large Lima. A well-known and excellent variety. It is the best shell bean known. Should have rich ground, and plenty of room to grow.

Carolina or Sewee. A variety similar to the Lima; the only difference is, the seeds and pods are smaller. It is generally cultivated, being more productive than the Large Lima.

Southern Willow-leaved Sewee or Butter. This is a variety which is grown by the market gardeners about New Orleans; the pods and beans are the same as the Sewee or Carolina Bean; it is quite distinct in the leaves, being narrow like the willow. It stands the heat better than any

Crease Back.

Golden Wax Flageolet.

Early Golden Cluster Wax.

Lazy Wife's.

other Butter Bean, and is very productive. Originated here, and was introduced by the late R. Frotscher.

Dutch Case Knife. A very good pole Bean; it is early; pods broad and long; somewhat turned toward the end.

Southern Prolific. No variety will continue longer to bear than this. It stands the heat of summer better than any other, and is planted to succeed the other kinds. It is a very strong grower; pods about seven inches long and flat; seeds are dark yellow or rather light brown. The standard variety for the New Orleans market, for late spring and summer.

If planted in July or August it will continue to bear until frost sets in.

Crease Back. A variety of Pole Beans which has been cultivated in the South for a long time, but has never come into the trade until introduced by the late Richard Frotcher, about ten years ago. It is an excellent bean, earlier than the "Southern Prolific." Seeds white; pods round, with a crease in the back, from which the name. It is a good grower, bears abundantly, and, if shipped, will keep better than most other kinds. It sells better in the spring than any other for shipping purposes; and when in season cannot be surpassed. For early summer, the Southern Prolific is preferable, standing the heat better. Several years ago we received half a bushel from near Mobile, Ala., and all the beans of this variety in the whole country can be traced back to this half bushel. We supplied two growers in Georgia where it was not known at that time. There is a light brown bean streaked and mottled with dark brown and black of the same name; but it is not equal to the white variety. In some localities this kind is called "Calico Crease Back." The white seeded variety is also known in some sections by the name of "Fat Horse." This is the original stock; the quality is so fine that no improvement can be made on it.

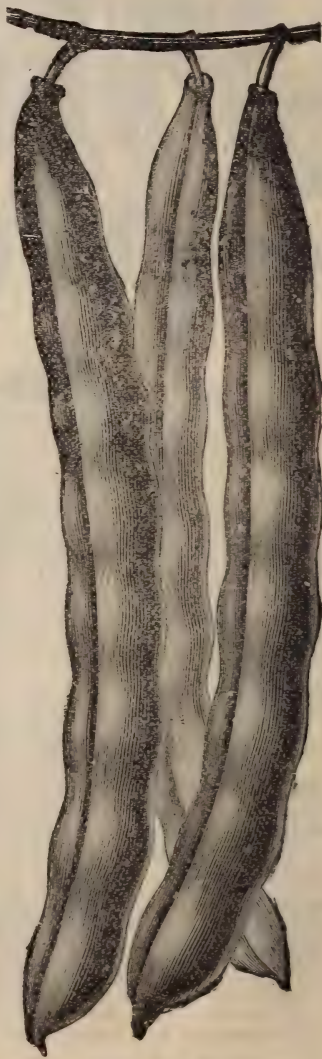
Golden Wax Flageolet. An excellent variety introduced a few years ago, from Germany. After several years' expe-

rience we can confirm all that is claimed for it. It is the best Wax Pole Bean in cultivation, surpasses in length and delicacy of flavor all other Wax varieties. It is a very strong grower, which is wanting by most of the Wax Pole kinds. It bears abundantly, is entirely stringless, and does not spot even by too much rain or other unfavorable weather. Can not be too highly recommended. The Golden Wax Pole Bean, brought out a few years ago, we have dropped, as it can stand no comparison with the Golden Wax Flageolet.

Early Golden Cluster Wax Pole. This is the earliest Wax Pole Bean in cultivation; pods from 5 to 8 inches long, pro-



Lazy Wife's Pole Beans.

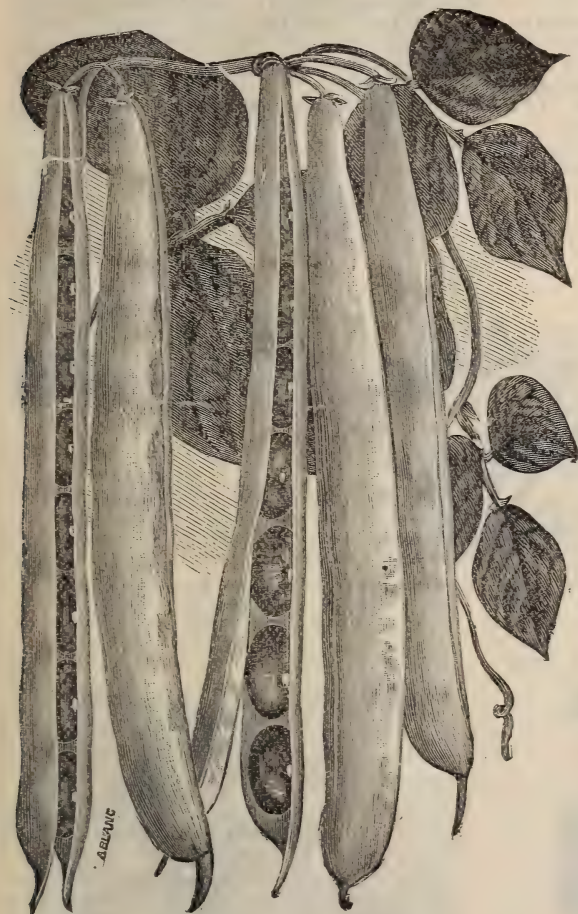


White Crease Back Pole Bean.

duced in clusters. The pods are golden yellow; for shipping they are rather too wide. It has not the same fine appearance of the Flageolet. For family use it cannot be too highly recommended on account of its productiveness and delicious flavor.

Lazy Wife's. A Pole Bean from Penn-

sylvania. The pods are entirely stringless 4—5 inches long, and have a fine flavor when cooked. They retain their rich flavor until nearly ripe. The beans are white and fine as a shell bean.



Golden Cluster Wax Pole Beans.



Golden Wax Flageolet Pole Beans.

ENGLISH BEANS.

GOURGANNE OR **FEVE DE MARAIS**, (Fr.), **PUFF BOHNEN** (Ger.), **HABA COMUN** (Sp.) drills $2\frac{1}{2}$ feet apart, every 6 inches one bean, during November; as, if planted in the spring it will not produce much.

BEETS.

BETRAVE (Fr.), **RUNKELRUEBE** (Ger.), **REMOIACHA** (Sp.)

Extra Early or Bassano.

Dewing's Early Red Turnip.

Early Blood Turnip.

Edmond's Early Blood Turnip.

Long Blood.

Half Long Blood.

Egyptian Red Turnip.

Crosby's Egyptian Red Turnip.

Eclipse.

Long Red Mangel Wurzel.

White French Sugar.

Silver or Swiss Chard.

Lentz.

CULTURE.

The ground for beets should be rich and well spaded or plowed. Sow in drills twelve to eighteen inches apart, cover the seed about one inch deep. When about a month old, thin them out to four or six inches apart. In this latitude beets are sown from January till the end of April, and from the middle of July till the middle of November; in fact, some market gardeners sow them every month in the year. In the summer and fall it is well to soak the seeds over night and roll in plaster before sowing.

Extra Early or Bassano. is the earliest variety, but not popular on account of its color, which is almost white when boiled. Earliness is not of such value here, where there are beets sown and brought to the market the whole year round. In the North it is different, where the first crop of beets in the market in spring will bring a better price than the varieties which mature later.

Dewings Early Red Turnip. This is earlier than the Blood Turnip, smooth skin and of light red color; planted a good deal by the market gardeners about New Orleans.

Early Blood Turnip. The most popular variety for market purposes as well as family use. It is of a dark red color and very tender. This is the principal variety planted for shipping. Our stock is raised



Dewings Early Red Turnip Beet.



Silver Beet or Swiss Chard.



Early Blood Turnip Beet.



Egyptian Red Turnip Beet.



Eclipse Beet.



White French Sugar Beet.

for us from dark selected smooth roots, and cannot be excelled.

Edmond's Early Blood Turnip Beet. A well selected variety; regular in shape; deep blood skin, dark flesh of excellent quality. Small tap root and small top.

Long Blood. It is not quite so tender as the foregoing variety, and therefore not planted at all for the market, and very little for family use. In the North it is chiefly planted for winter use; here we have Turnip Beets the whole winter from the garden; therefore it has not the same value.

Half Long Blood. A very dark red variety of a half long shape; a good kind for family use.

Egyptian Red Turnip. This is a well known variety, very early, tender, deep red and of Turnip shape. Leaves of this variety are smaller than of others. The seeds are also much smaller. We recommend it and consider it a good acquisition. The seed of this variety is obtained by us from the original source and is the finest stock offered. It increases in popularity every year.

Crosby's Egyptian Beet. An improvement on the foregoing sort; being of more uniform shape and color. Recommend same highly; it will take the place of the old variety for market purposes.

Eclipse. A new beet from Germany. very regular, of globular shape. It has a

small top, is of dark red blood color, sweet and fine grained flesh. It comes earlier than the Egyptian.

Long Red Mangel Wurzel. This is raised for stock; it grows to a large size. Here in the South where stock is not stabled during the winter, the raising of root crops is much neglected. Being very profitable for feeding it ought to be more cultivated.

White French Sugar is used the same as the foregoing; not much planted.

Silver Beet or Swiss Chard. This variety is cultivated for its large succulent leaves, which are used for the same purposes as Spinach. It is very popular in the New Orleans market.

Lentz. A strain of Blood Turnip Beet which originated with one of the most prominent market gardeners around Philadelphia. This beet, as selected and grown by him, has had a great reputation in the surroundings of the above place, but the seed has been carefully guarded and kept until recently, when it fell into the hands of a seed grower, from whom we have received our supply. It is fully as early as the Egyptian Beet, but larger and of better quality; and it has a fine turnip form with smooth roots, dark blood red flesh, tender and sweet at all times, never becoming tough and stringy, even when old. The cut is an exact representation of its shape.

BORECOLE OR CURLED KALE.

CHOUX-VERT (Fr.), GRUENER KOHL (Ger.), BRETON (Sp.)

Dwarf German Greens. A vegetable highly esteemed in the Northern part of Europe, but very little cultivated in this country. It requires frost to make it good for the table. Treated the same as cabbage.

BROCCOLI.

CHOUX BROCCOLI (Fr.), SPARGEL-KOHL (Ger.) BROCOLI (Span.)

Purple Cape. Resembles the Cauliflower, but not forming such compact heads, and not quite so white, being of greenish cast. We raise such fine Cauliflower here that very little Broccoli is planted.

The Purple Cape is the most desirable variety; cultivated the same as Half Early Cauliflower; further North than New Orleans, where Cauliflower does not succeed, the Broccoli may be substituted, being hardier.

BRUSSELS SPROUTS.

CHOUX DE BRUXELLES (Fr.), ROSEN or SPROSSEN KOHL (Ger.), BRETON DE BRUSELAS (Sp.)

A vegetable cultivated the same as Cabbage, but very little known here. The small heads which appear along the upper part of the stalk between the leaves, make a fine dish when well prepared. Should be sown during August and September.



Brussels Sprouts.

CABBAGE.

CHOUX POMME (Fr.), KOPFKOHL (Ger.), REPOLLO (Sp.)

Early York.

Large York.

Early Large Ocheart.

Early Winningstadt.

Jersey Wakefield.

Early Flat Dutch.

Early Drumhead.

Large Flat Brunswick.

Improved Early Summer.

Improved Large Late Drumhead.

Frotscher's Superior Large Late Flat Dutch.

Crescent City Late Flat Dutch.

Stein's Early Flat Dutch.

Solid South.

Red Dutch, for pickling.

Green Globe Savoy.

Early Dwarf Savoy.

Drumhead Savoy.

St. Dennis, or Chou Bonneuil.

Succession.

During the past "World's Exposition" there was exhibited by the late Richard Frotscher different vegetables as they were in season. Many visitors will recollect the specimens of Cabbage, Beets, Celery, Cauliflower, Lettuce, Cucumbers, etc., they saw there displayed. He received a Prize for "Frotscher's Flat Dutch Cabbage" and Early Blood Turnip Beets. Ten heads of Cabbage, devoid of all outside leaves, weighed one hundred and seventy-three pounds. They were raised on Captain Marcy's place, one mile below Algiers. They were not exhibited for competition, but merely to show our Northern visitors what fine vegetables we have here during the winter, when at their homes everything is covered with snow and ice. The Committee of Awards on Vegetables gave the Prize without any solicitation on his part—they thinking it well merited.

CULTURE.

Cabbage requires a strong, good soil, and should be heavily manured. To raise large Cabbage without good soil and without working the plants well is an impossibility. Cabbage is sown here almost every month of the year, but the seed for the main crop should be sown from July to September. Some sow earlier, but July is time enough. For a succession, seed can be sown till November. The main crop for spring should be sown from end of October to end of November, as stated before. The raising of Cabbage for spring has become quite an item of late years; Brunswick should be sown a little earlier than the Early Summer—the latter kind not till November, but in a frame, so the young plants can be protected against cold weather, which we generally have between December and January. After the middle of January setting out can be commenced with. These early varieties of Cabbage require special fertilizing to have them large. Early varieties are sown during the winter and early spring. Cabbage is a very important crop, and one of the best paying for the market gardener. It requires more work and attention than most people are willing to give to raise Cabbage plants during the months of July and August. We have found, by careful observation that plants raised in August are the surest to head here. The most successful gardeners in raising cabbage plants sow the seeds thinly in seed beds, and water several times during the day; in fact the seed

bed is never allowed to get dry from the sowing of the seed till large enough to transplant. There is no danger in doing this, of scalding the plants, as many would suppose; but on the contrary the plants thrive well, and so treated, will be less liable to be attacked by cabbage flies, as they are too often disturbed during the day. Tobacco stems chopped up and scattered between the plants and in the walks between the beds, are a preventive against the fly.

Early York. An early variety, but very little grown here except for family use. As we have cabbage heading up almost the whole year, it has not the same value as in Northern climates, where the first cabbage in spring brings a good price.

Large York. About two or three weeks later than the above, forming hard heads not grown for the market. Recommended for family use.

Early Large Oxheart. An excellent variety, which is later than the Large York, and well adapted for sowing in fall or early spring.

Early Winningstadt. This is a very

solid heading variety; pointed, of good size and of the same season as the Oxheart. Very good for family use. But does not suit the market, as no pointed cabbage can be sold to any advantage in the New Orleans market.

Jersey Wakefield. Very popular in the North, but little planted here. It is of medium size and heads up well.

Early Flat Dutch. An intermediate kind between the early pointed and late varieties. It is not, on an average, as heavy as the Oxheart or Winningstadt; but, if raised for the market more suitable on ac-



Early York.



Large Flat Brunswick.



Early Dwarf Savoy.



Early Winningstadt.



St. Denis or Chou Bonneuil.



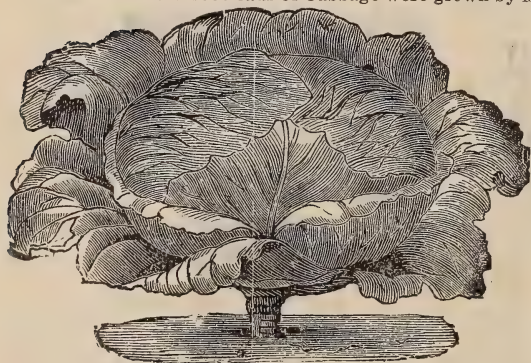
Drumhead Savoy.



Large York.



These three heads of Cabbage were grown by M. POPOVICH, at TUNISBURG, LA.



Improved Large Drumhead.



Early Large Oxheart.



Green Globe Savoy.



Early Flat Dutch.



Crescent City Flat Dutch.

count of being flat. Very good variety for family use.

Early Drumhead. A similar variety to the above; a little earlier, and not making as many leaves. it can be planted close. A good early spring cabbage

Large Flat Brunswick. This is a late German variety, introduced here about 30 years ago by the late Richard Frotscher. It is an excellent kind, and when well headed up, the shape of it is a true type of a premium Flat Dutch Cabbage. Requires very rich ground if sown for winter crop, and should be sown early, as it is a little more susceptible of frost than the Superior Flat Dutch. It is well adapted for shipping, being very hard, and does not wilt so quick as others. At Fremier, on the Illinois Central Railroad, this is the kind principally planted, and is preferred over all other varieties. The people living there plant nothing else but cabbage, and have tried nearly all highly recommended varieties, and this is their choice. At that place the seeds are sown in October and November. The bulk of the cabbage raised there is shipped North in April and May, and is the finest which comes to the Chicago market.

Improved Early Summer. This cabbage is of recent introduction. It is not quite so large as the Brunswick; for fall it can be sown in August; for spring, in November and as late as January, heads up very uniform and does not produce many outside leaves. It is harder than the Brunswick, and stands the cold and heat better. The seed we offer is the best strain cultivated, and can be planted closer together than the late varieties—say about 8,000 to the acre. The finest crop of this variety (one hundred and fifty thousand heads of cabbage) we ever saw, was raised a few years ago near the city. The grower could commence on one end of the row to cut, and continue to



Improved Early Summer.

the end, all well headed.— They averaged about 7 pounds.

Improved Large Late Drumhead. Fine large variety; should be sown early in the fall for winter, or during December and January for late spring use; it will stand more cold than the Brunswick.

Superior Large Late Flat Dutch. This is the most popular variety for winter cabbage, and cultivated by almost every gardener who plants for the New Orleans market. Heads are large and solid, often weighing from fifteen to twenty-five pounds.

In regard to the time of planting, see remarks under the head of "Cabbage" in the directions for planting for July. We have tried seed of the Flat Dutch from different growers, but have found none yet to equal the stock which is raised for us by contract.

Crescent City Flat Dutch. This variety has been sold for the past few years under the name of No. 1. It is the most uniform heading cabbage suitable for this section; heads are large and solid. About two weeks earlier than the Superior Large Late Flat Dutch. Recommend same highly.

Stein's Early Flat Dutch Cabbage. This is one of the earliest cabbages for its size. The demand for the seed has increased almost double since it was introduced. It is a sure header, very regular and well adapted for shipping. Is planted exclusive of all other kinds by some of the largest cabbage growers in this vicinity.

Solid South. A cabbage introduced by C. L. Allen, one of the leading cabbage growers on Long Island. It is of the same season as the Early Summer, but more regular in shape than that variety, and very hard heading; the crop can be cut almost at one time.



Stein's Early Flat Dutch.

Red Dutch. Mostly used for pickling or salads. Very little cultivated.

Green Globe Savoy. Medium sized heads, not very hard, but all the leaves can be used. This and the following varieties are of fine flavor, and preferred by many over the other kinds.

Early Dwarf Savoy. Head rather small but solid; leaves very curled and succulent; of a dark green color. Very fine for family garden.

Drumhead Savoy. Leaves are wrinkled, but not quite so much as the two foregoing kinds. It grows to a good size with large roundish head.



Early Drumhead.

St. Denis, or Chou Bonneuil. This was, at one time, one of the most popular varieties grown for this market, but during the past few years has not done so well as formerly, and is, therefore, planted very little now. It does better for spring than for fall; should be sown in November.

Succession. This cabbage is of recent introduction. It resembles the German Brunswick, but not quite so large, and is of same season. It heads up very regularly and uniform; should be planted same time as the Early Summer and Brunswick for a spring crop.

CAULIFLOWER.

CHOUFLEUR (Fr.), BLUMENKOHL (Ger.), COLIFLOR (Sp.)

Extra Early Paris.

Half Early Paris.

Early Erfurt.

Le Normands (short stemmed.)

Large Algiers.

Early Italian Giant

Late Italian Giant.

Early Snowball.



Early Italian Giant Cauliflower.

This is one of the finest vegetables grown, and succeeds well in the vicinity of New Orleans. Large quantities are raised on the sea coast in the neighborhood of Barataria Bay. The two Italian varieties are of excellent quality, growing to a large size, and are considered hardier than the German and French kinds. The ground for planting Cauliflower should be very rich. They thrive best in rich, sandy soil, and require plenty of moisture during the formation of the head. The Italian varieties should be sown from April to July; the latter month and June is the best time to sow the Early Giant. During August, September and October, the Le Normands, Half Early Paris and Erfurt can be sown, but in this section the Algiers has the preference. The Half Early Paris is very popular, but the other varieties are just as good. For spring crop the Italian kinds do not answer, but the early French and German varieties can be sown at the end of December and during January, in a bed protected from frost, and may be transplanted into the open ground during February and as late as March. If we have a favorable season, and not too dry, they will be very fine; but if the heat sets in soon, the flowers will not attain the same size as those obtained from seeds sown in fall, and which head during December and January.

Extra Early Paris. The earliest variety; heads small, very tender.

Half Early Paris. The most popular in the New Orleans market. Heads of good size, white and compact.

Early Erfurt. This variety is of more dwarfish growth than the two former. Heads white and of good size. Heads with certainty.

Le Normands, is a French variety, and largely cultivated here. It stands more dry weather than the other varieties, and has large and pure white heads. Not so popular as the Half Early Paris in this market, but there is no good reason why it should not be, as it is an excellent kind in every respect; stands the heat better than any other.

Large Algiers. A French variety of the same season as the Le Normands, but a surer producer. It is one of the best kinds, and has taken the place of other second early varieties since it has been introduced. It has become the leading market variety.

Early Italian Giant. Very large fine sort, not quite so late as the Late Italian, and almost as large. The heads are quite large, white and compact, and of delicious flavor. We recommend it to all who have not tried it. When sown at the proper season, it will head with certainty, and will not fail to give satisfaction.

Late Italian Giant. This is the largest of all Cauliflowers, and grown to a considerable extent in the neighborhood of New Orleans. It is very large and compact; should not be sown later than June, as it takes from seven to nine months before it heads.

Early Snowball. An extra early dwarf variety similar to the *Dwarf Erfurt*; good to sow for last in spring. It will produce flowers as early as the *Extra Early Paris*, but larger.



Le Normands Short-Stemmed Cauliflower.



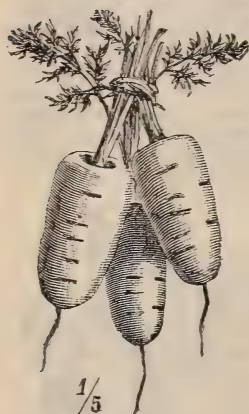
Large Algiers.

CARROT.

Early Scarlet Horn.
Half Long Scarlet French.
Improved Long Orange.
Long Red without core.

St. Valerie.
Half Long Luc.
Danver's Intermediate.
Chantenay Half Long Scarlet.

CARROTTE (Fr.), MOEHRE OR GELBE RUBE (Ger.), ZANAHORIA (Sp.)



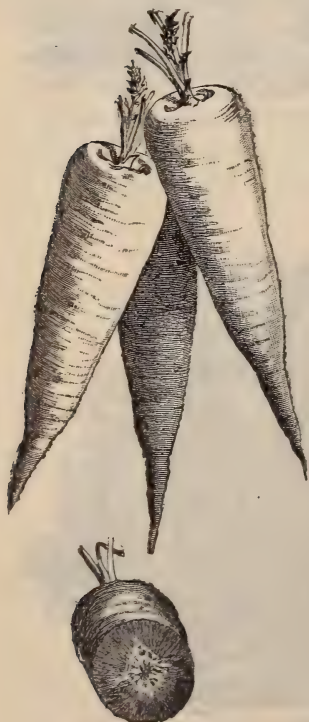
Early Scarlet Horn Carrot.



Half Long Scarlet French Carrot.



Half Long Luc Carrot.



St. Valerie Carrot.



Danver's Intermediate Carrot.



Long Red Carrot without core.

Requires a sandy loam, well manured the previous year, and deeply spaded up. Should be sown in drills ten to twelve inches apart, so the plants can be worked after they are up. Gardeners here generally sow them broad cast, and often the roots are small from being crowded too much together.

Danver's. An intermediate American kind of recent introduction. It is of a bright orange color; very smooth; symmetrically formed; somewhat stump-rooted like the Half Long Luc. It will produce more in weight to the acre than any other Half Long variety.

Chantenay Half Long Carrot. A half long scarlet variety; similar to the Half Long Luc, but thicker.

Early Scarlet Horn. A short stump-rooted variety of medium size, very early and of fine flavor. Not cultivated for the market.

Half Long Scarlet French. This is the most popular variety, and extensively grown for the market as well as for family use. It is a little later than the Early Horn, much larger, bright scarlet in color, and of fine flavor.

Half Long Luc. An excellent variety from France. It is as early as any previously mentioned, but stump-rooted and larger. Very smooth and of a fine color.

Improved Long Orange. This is an old variety; roots long and of deep orange color. It is not much cultivated in this section, and the flavor is not so fine as that of the two preceding kinds. Valuable for field culture.

St. Valerie. Also a French variety, bright red in color; a little larger and longer than the Half Long French, and stronger in the leaves. This is one of the finest carrots, and will in the course of time take the place of the Half Long. It is very smooth.

Long Red, without core. A variety from France, which is of cylindrical shape, very smooth, bright scarlet color; and of fine flavor; has no heart or core. It is not quite so early as the Half Long, but more productive. Consider it a first-class variety for the table, and should be more cultivated.

CELERY.

CELERI (Fr.), SELLERIE (Ger.), APIO (Sp.)

Large White Solid.

Perfection Hartwell.

Dwarf Large Ribbed.

Golden Self Blanching.

Giant Pascal.

Cutting or Soup.

Celeriac or Turnip-rooted Celery.



Giant Pascal Celery.



Dwarf Large Ribbed Celery.

Sow in May and June for early transplanting, and in August and September for a later crop. Sow thinly and shade during the hot months. When the plants are six inches high, transplant into trenches about four inches deep, nine wide and two and a half feet apart, made very rich by digging in rotten manure. Plants should be from 6 to 8 inches apart. When planted out during the hot months, the trenches require to be shaded, which is generally done by spreading cotton cloth over them; latanners will answer the same purpose. Celery requires plenty of moisture, and watering with soapsuds, or liquid manure, will benefit the plants a great deal. When tall enough, it should be earthed up to blanch to make it fit for the table. Which can be commenced with when the plants are a foot high. Best not to earth up too high at first, only when the final or last hilling up is made.

Large White Solid. This variety used to be planted exclusively, but since the introduction of half dwarf and dwarf kinds, it has been dropped, more so by market gardeners. It is crisp, but not as fine flavored as the following kinds.

Perfection Hartwell. This variety is in size between the Large White Solid and Dwarf kinds; it is of excellent quality, very thick, and when blanched the heart is of a beautiful golden yellow color; preferable to the White Solid, and one of the best kinds ever introduced.

Dwarf Large Ribbed. This kind was brought here several years ago from France. It is short, but very thick ribbed, solid and of fine flavor. The best dwarf variety for this section.

Golden Self Blanching. A French variety, of the best quality. The heart is solid, very tender, of a beautiful yellow color; the ribs brittle and of a delicious flavor. Can not be too highly recommended.

Giant Pascal. This is a selection from the New Golden Self-Blanching Celery; it partakes of the best qualities of that variety, but it is a much larger and better

keeper. It is of a fine nutty flavor; grows about two feet high; the stalks are very broad, thick and crisp, entirely stringless: the width and thickness of the stalks are distinctive features of this kind. It bleaches with but little "earthing up" and very quickly, usually in five or six days.

Celeriac or Turnip-Rooted Celery, is very popular in some parts of Europe, but hardly cultivated here. It should be sown in the fall of the year, and transplanted six inches apart. When the roots have obtained a good size, they are boiled, scraped off, sliced and dressed with vinegar, etc., as a salad.



Celeriac or Turnip-Rooted Celery.



Large White Solid Celery.



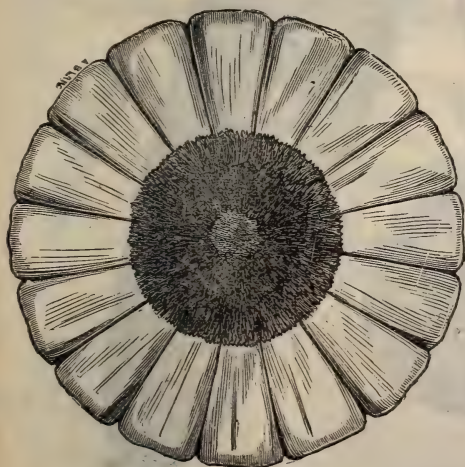
Perfection Hartwell Celery.

so popular as in former years, and very little planted in this vicinity.

CORN SALAD.

MACHE, DOUCET (Fr.), ACKER SALAT (Ger.), VALERIANA (Sp.)

Broad-leaved Corn Salad is the variety generally cultivated. It is used as a salad during the winter and early spring months. Should be sown broad-cast or in drills nine inches apart during fall and winter.



Champion White Pearl Corn.

Evergreen
Sugar Corn.Early Sugar or
New England Corn.Extra Early
Sugar Corn.

Celery for Soup. This is sown in the spring of the year, broadcast, to be used for seasoning the same as Parsley.

CHERVIL.

CERFEUIL (Fr.), KERBELKRAUT (Ger.)

An aromatic plant, used a good deal for seasoning, especially in oyster soup, and is often cut between Lettuce when served as a salad. In the North this vegetable is very little known, but in this section there is hardly a garden where it is not found. Sow broadcast during fall for winter and spring, and in January and February for summer use.

COLLARDS.

A kind of Cabbage which does not head, but the leaves are used the same as other cabbage. Not

CORN.**INDIAN.**

MAIS (Fr.). WELSCHKORN (Ger.). MAIZ (Sp.)

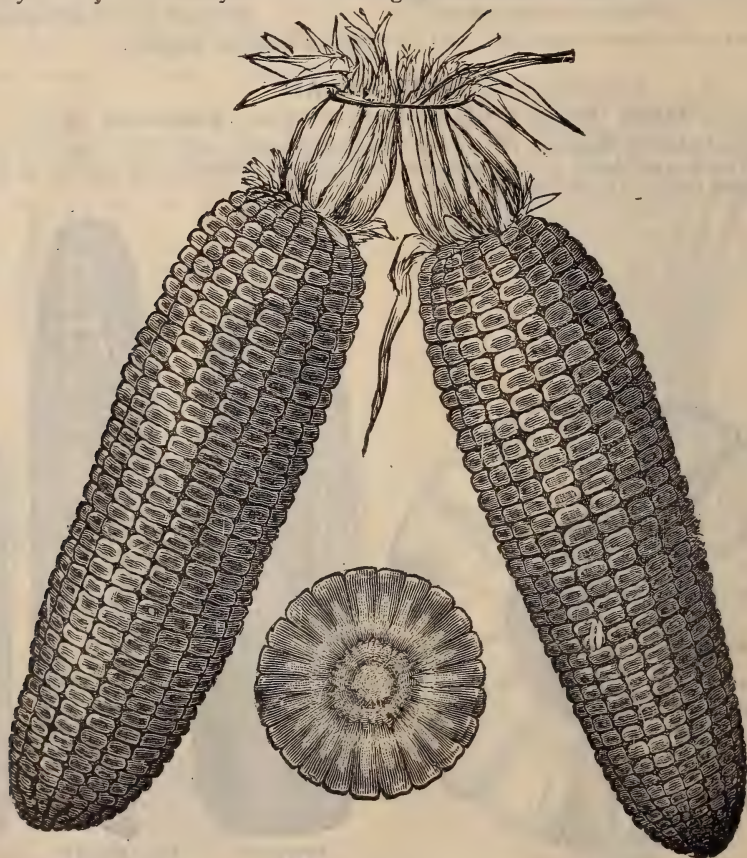
*Extra Early or Crosby's Dwarf Sugar.**Adam's Extra Early.**Adam's Early.**Early Sugar or Sweet.**Stowell's Evergreen Sugar.**Golden Dent Gourd Seed.**Early Yellow Canada.**Large White Flint.**Blunt's Prolific Field.**Improved Leaming.**Golden Beauty.**Champion White Pearl.**Mosby's Prolific.**Hickory King.**White Rockdale Corn.**Yellow Creole Corn.*

Plant in hills about three feet apart, drop four or five seeds and thin out to two or three. Where the ground is strong the Adam's Extra Early and Crosby's Sugar can be planted in hills two and a half feet apart, as these two varieties are more dwarfish than the other kinds. Plant for a succession from February to June.

Extra Early or Crosby's Dwarf Sugar. This is a very tender variety and of excellent quality. Ears small, but very tender. It is not so extensively planted as it deserves to be.

Adam's Extra Early. The earliest kind, but ears are small, and it is not as desirable as the Adam's Early, which follows this variety closely in maturity.

Adam's Early. This is almost exclusively planted for the first roasting ears by the market gardeners. The ears are of good size, but otherwise for the table only, same as common corn. Strange to say, the gardeners do not plant any sugar corn for the market. We sell hundreds of bushels of St. Charles and other varieties of field corn; to be planted for the market, to be sold green.



Improved Leaming.

Early Sugar or New England. A long eight-rowed variety, which succeeds the Extra Early sorts. Desirable kind.

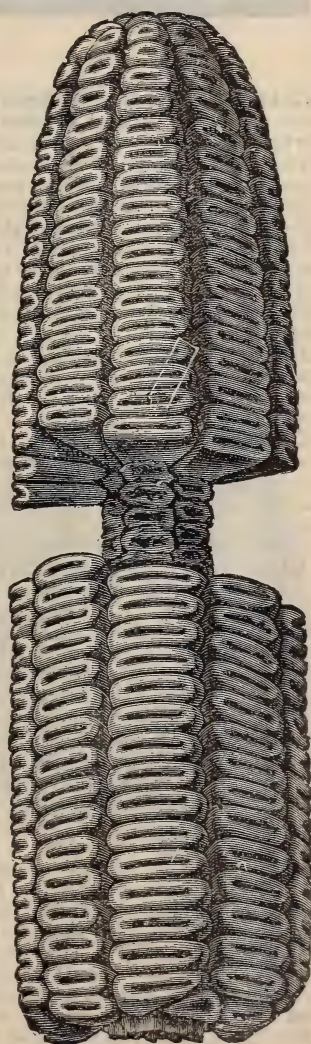
Stowell's Evergreen Sugar. This is the best of all Sugar Corn. It is early, the ears are of large size, and are well filled. It remains green longer than any other varie-

ty, and is quite productive. The cultivation of this excellent cereal, as well as all other Sugar Corn, is much neglected, yet why people will plant common field-corn for table use, considering size instead of quality, we cannot understand.

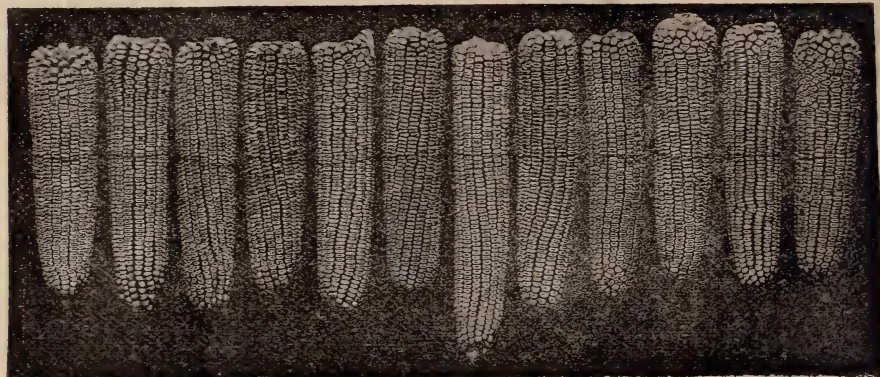


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Golden Beauty Corn.



Hickory King Corn.



White Rockdale Corn.

Golden Dent Gourd Seed. A field variety which is very productive at the North. It makes a very fine Corn South, but has to be planted here several years in succession before it attains perfection, as during the first year the ears are not well covered by the hask, which is the case with all Northern varieties. When selected and planted here for a few years, it becomes acclimated and makes an excellent Corn, with large, fine ears, grain deep and cob of medium size.

Early Yellow Canada. A long eight-rowed variety, very early, and is planted in both the field and garden. It does well here.

Large White Flint. A very popular variety with gardeners and amateurs. It is planted here for table use principally, but like the Golden Dent, makes an excellent kind for field culture after it has been planted here for two or three years.

Blunt's Prolific Field Corn. This is a very excellent variety, either for the field or for the table. It is very prolific, producing from four to six ears of corn. They are of medium size, but well filled and heavy. It is second early. We recommend it as an early yielding corn for field culture.

Improved Leaming. An extra early field variety. It is not hard and flinty, but sweet and nutritious, making excellent feed and fine meal. The ears are large and handsome, with deep large grains, deep orange color and small red cob. It is very productive. The shucks cover the ear better than any Northern or Western variety we have ever tried. It is adapted to a variety of soils, and produces well on heavy or light soil; it has shown itself as very reliable.

Golden Beauty. This is the handsomest of all yellow corn; the ears are of a perfect shape, long, and filled out to the end of the cob. The grains are not of a flinty type, neither are they so soft as to be

greatly shrivelled, as in the Golden Dent. Golden Beauty matures early, ripening in eighty days from planting, and surpasses all in size and beauty of grain.

Champion White Pearl. This is a very handsome white corn. The grain is pure white, exceedingly heavy and long, two of which will span the cob, which is small. Being medium in size of stalk it can be planted much thicker than a large corn, and at the same time bear a full sized ear. The originator has established in Champion White Pearl Corn a short, thick stalk, with the ear growing low upon it, which is an advantage in stormy weather. Planted here a good deal for the market.

Mosby's Prolific Corn. This is a Southern Corn, and is recommended for general crop. The originator of this variety says: "This corn is a cross between two widely different varieties. It is purely white; small cob, deep full grain, neither too hard nor too soft, and stands crowding in the drill as close again as any other kind. Ears of medium size, but long. It stands the drouth better than ordinary corn." Should be planted early.

Hickory King. This Field Corn has come into general cultivation. It has proven itself all that is claimed for it, and is the Largest Grained and Smallest Cobbed Pure White Dent Corn in the world. It is early. The ears are from seven to nine inches in length, and are generally borne from three to five on a stalk, making it very productive. The ears are well covered by the shucks; a great consideration in field Corn planted in the South.

White Rockdale Corn. This new southern variety has been planted quite extensively and has proven to be everything that was claimed for it. *It is the best Southern White Corn in cultivation, flintier than the Mosby's Prolific; moderately early; cob*

small, deeply dented, grain of pure white color and makes excellent meal. We recommend same highly; any one using this corn will not be disappointed.

Yellow Creole Corn. This is the flintiest variety of all Corns in cultivation; it can be easily called weevil proof. It

will withstand more drought than any other sort; the ears are well covered by the shuck, which prevents birds from picking it and rain from spoiling it. It is the kind generally planted here for main crop. The strain we offer is the true kind and very choice.

CRESS.

CRESSON (Fr.) KRESSE (Ger.), BERRO (Span.)

Used for salad during winter and spring. Sow broad cast or in drills six inches apart.

Curled or Pepper Grass. Not much used in this section.

Broad-Leaved. This variety is extensively cultivated for the market. It is sown from early fall to late spring. The leaves resemble Water Cress, a variety which does not well succeed here. Is considered a very wholesome dish.

CUCUMBER.

CONCOMBRE (Fr.), GURKE (Ger.), PEPINO (Sp.)

Improved Early White Spine.

New Orleans Market.

Early Frame.

Long Green Turkey.

Early Cluster.

West India Gherkin.

Cucumbers need a rich soil. Plant in hills from three to four feet apart; the hills should be made rich with well decomposed manure, and eight to ten seeds should be planted in each hill, and covered about one-half inch deep; when well up, thin out to four plants in the hill till the vines meet. When the spring is dry the plants have to be watered, else they do not keep in bearing long. They can be planted from March till July. A great many Cucumbers are planted here in February, or even sooner, and are protected by small boxes with a pane of glass on top. These boxes are removed during the day and put back in the evening. When days are cloudy and cold, the plants are kept covered.



Improved Early White Spine.



New Orleans Market.

Improved Early White Spine. This is a popular variety. It is of medium size, light green, covered with white spines, and turns white when ripe. A good kind for shipping. It is used by market gardeners for forcing as well as outdoor culture and is very productive.

New Orleans Market. This is a variety selected from an imported forcing Cucumber, introduced by the late Richard Frotcher. It is good for forcing or open ground; very productive, keeps its green color and has few vines. This kind cannot be excelled for shipping, as it produces very perfect cucumbers and but few culls; the largest growers of cucumbers for shipping about here plant none but this variety. It

is quite different from the Long White Spine offered by some.

Early Frame. A good, early variety, but not so popular as the foregoing kind. It is deep green in color, but turns yellow very quickly; therefore gardeners do not plant it much.

Long Green Turkey. A long variety attaining a length of from fifteen to eighteen inches when well grown. Very fine and productive.

Early Cluster. Early, short and prickly; it bears in clusters.

West India Gherkin. This is an oval variety, small in size. When grown to its full size it can be stewed with meat. In fact, this is the only use made of it about New Orleans.



West India Gherkin.



Early Frame.



Early Cluster.

EGG PLANT.

AUBERGINE (Fr.), EIERPFLANZE (Ger.), BERENGENA (Sp.)

The seed should be sown in hot beds in the early part of January. When a couple of inches high they should be transplanted into another frame, so that the plants may become strong and robust. When warm enough, generally during March, the plants can be planted in the open ground, about two and a half feet apart. This vegetable is very profitable in the South, and extensively cultivated.

Large Purple, or New Orleans Market. This is the only kind grown here; is large, oval in shape and of a dark purple color and very productive. Southern grown seed of this, as a good many tropical or sub-tropical vegetables, is preferable to Northern seed, as it will germinate more readily, and the plant will last longer during the hot season. It is the best variety for shipping, superior to the Northern raised kinds. It carries better. The cut is made from three ordinary specimens and represents the true form. This season we will have enough Southern

grown seeds to supply our patrons.

Early Dwarf Oval. This variety is very early and productive; the fruit is not so large as the New Orleans Egg Plant, but equal in flavor. For market it will not sell as well as the former; desirable for family garden.

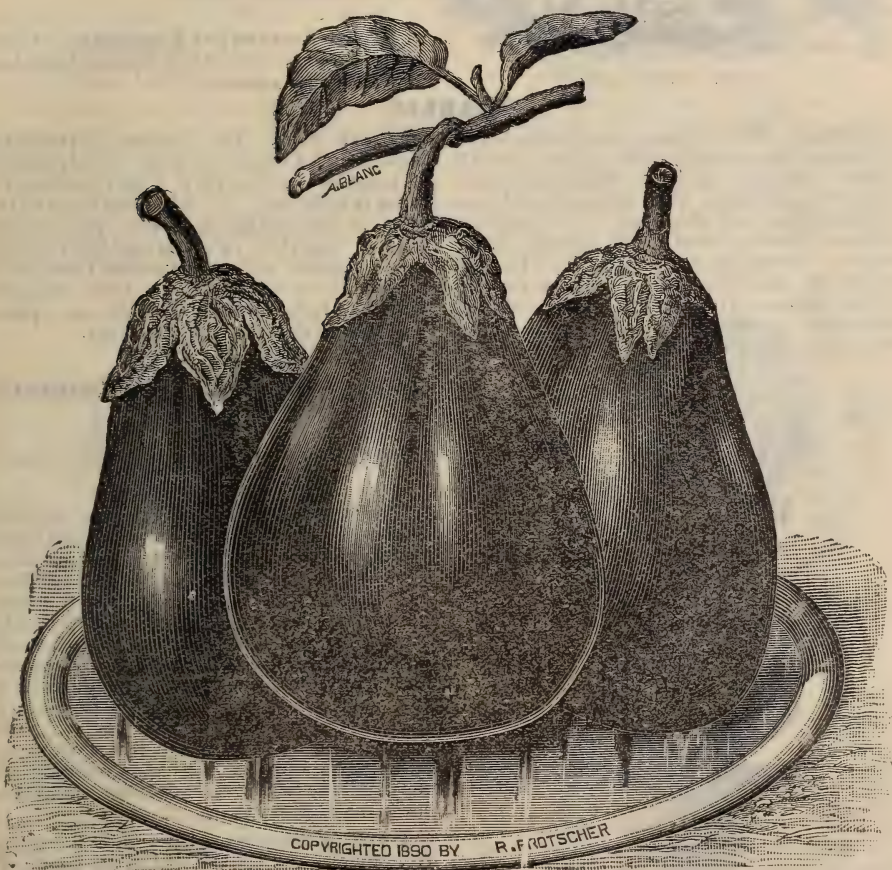
The New York Market. Is rounder in shape than the New Orleans; has spines on leaves and stems; not very popular here. Shippers and gardeners always give the New Orleans Market variety the preference.



New York Market.



Early Dwarf Oval.



New Orleans Market.

ENDIVE.

CHICOREE (Fr.), ENDIVIEN (Ger.), ENDIBIA (Sp.)

A salad plant which is very popular and much cultivated for the market, principally for summer use. It can be sown in drills a foot apart, and when the plants are well up, thinned out till about eight inches apart. Or it can be sown broad-cast thinly and transplanted the same as Lettuce. When the leaves are large enough, say about eight inches long, tie them up for blanching, to make them fit for table. This can only be done in dry weather, otherwise the leaves are apt to rot. For summer use do not sow before the end of March, as if sown sooner, the plants will run into seed very early. Sow for a succession during the spring and summer months. For winter use sow in September and October.



Green Curled Endive.

Green Curled. Is the most desirable kind, as it stands more heat than the following sort, and is the favorite market variety.

Extra Fine Curled. Does not grow quite so large as the foregoing, and is more apt to decay when there is a wet summer. Better adapted for winter.

Broad-Leaved, or Escarolle. Makes a fine salad when well grown and blanched, especially for summer.

GARLIC.

Garlic. There is more Garlic grown in Louisiana than in any other State, or in all States together. It is a staple product of the lower parishes, and is raised for home consumption and shipping. It is used for flavoring stews, roasts and various other dishes. People from the South of Europe use much more than the inhabitants of the United States. It should be planted in October and November, in drills two to three feet apart, about six inches in the drills and

one inch deep. The distance between the rows depend upon the mode of cultivation; if planted in the garden, a foot between the rows is sufficient. It is cultivated like Onions; in the spring they are taken up and platted together in a string by the tops. One of these strings contains from 50 to 60 heads in double rows; they are then stored or rather hung up in a dry, airy place, and will keep from 6 to 8 months.



Early White Vienna Kohl-Rabi.

KOHLRABI or TURNIP-ROOTED CABBAGE.CHOU NAVET (Fr.), KOHLRABI (Ger.),
COL DE NABO (Sp.)

This vegetable is very popular with the European population of our city, and largely cultivated here. It is used for soups, or prepared in the same manner as Cauliflower. For late fall and winter use it should be sown from the end of July till the middle of October; for spring use, during January and February. When the young plants are one month old transplant them in rows one foot apart, and about the same distance in the rows. They also grow finely if sown broad-cast and thinned out when young, so that the plants are not too crowded; or, they may be sown in drills, and cultivated the same as Ruta Bagas

Early White Vienna. The finest variety of all, and the only kind we keep. It is early, forms a smooth bulb, and has few small leaves. The so-called large White or Green is not desirable.



Large London Flag Leek.

LEEK.

POIREAU (Fr.), LAUCH (Ger.), PUERO (Sp.)

A species of Onion highly esteemed for flavoring soups. Should be sown broadcast and transplanted, when about six to eight inches high, into rows a foot apart, and six inches apart in the rows. Should be planted at least four inches deep. They require to be well cultivated in order to secure large roots. Sow in October for winter and spring use, and in January and February, for summer.

Large London Flag. Is the kind most generally grown.

Large Carentan. This is a French variety which grows to a very large size; takes the place of the former.

LETTUCE.

LAIQUE [Fr.], LATTICH [Ger.], LECHUGA [Sp.]

Early Cabbage or White Butter Head.

Improved Royal Cabbage.

Brown Dutch Cabbage.

Drumhead Cabbage.

White Paris Coss.

Perpignan.

New Orleans Improved Large Passion.

Trocadero.

Lettuce is sown here during the whole year by the market gardener. Of course, it takes a great deal of labor to produce this vegetable during our hot summer months. For directions how to sprout the seed during that time, see "Work for June." The richer and better the ground the larger the head will be. No finer Lettuce is grown anywhere else than in New Orleans during fall and spring. The seed should be sown broadcast, when large enough, plant out in rows a foot apart, and from eight to ten inches apart in rows. Some kinds grow larger than others; for instance, Butter Head will not require as much space as Drumhead or Perpignan.



White Paris Coss Lettuce.



Improved Royal Cabbage Lettuce.



Early Cabbage or White Butter Lettuce.

Early Cabbage or White Butter. An early variety, forming a solid head, but not quite so large as some others. It is the best kind for family use, to sow during fall and early spring, as it is very early and of good flavor.

Improved Royal Cabbage. This is the most popular variety in this State. Heads light green, of large size, and about two weeks later than the White Butter. It is tender and crisp; can be sown later in the spring than the foregoing kind, and does not run into seed so quickly.

Brown Dutch Cabbage. A very hard kind, forms a solid head; not so popular as many other kinds; good for winter.

Drumhead Cabbage. An excellent spring variety, forming large heads, the outer leaves curled.



Drumhead Cabbage Lettuce.

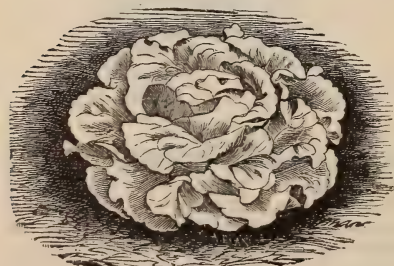
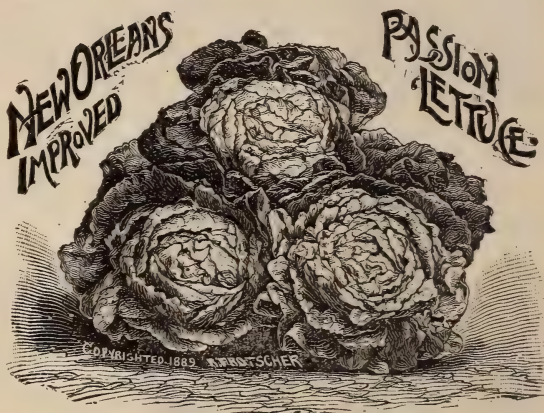
White Paris Coss. This is very popular with the New Orleans market gardeners, as it is the favorite with the French population. It grows to perfection and forms large, fine heads, particularly in the spring of the year.



Perpignan Lettuce.

New Orleans Improved Large Passion. This is a Cabbage Lettuce introduced by the late Richard Frotcher from California; it attains a large size, grows slowly, but heads very hard. It does better here during late autumn and winter than in summer, as it cannot stand the heat. If sown late in the fall and transplanted during winter, it grows to very large heads, hard and firm. This is the kind shipped from here in the spring, and cannot be surpassed for that purpose.

Troadero Lettuce. A new Cabbage Lettuce from France; it is of light green color, forming a large solid head, resembling the New Orleans Improved Passion Lettuce somewhat in appearance;



Troadero Lettuce.

however, the leaves are thinner, and, therefore, not so well adapted for shipping. It is excellent for forcing for home market.

Perpignan. A fine German variety, which forms large, light green heads, and which stands the heat better than the Royal. It is much cultivated for the market, as it thrives well when sown during the latter part of spring.

MELON.*Musk or Canteloupe.*

Osage.
Netted Nutmeg.
Netted Citron.
Pine Apple.
Early White Japan.

Persian or Cassaba.
New Orleans Market.
New Early Hackensack.
Emerald Gem.
Long Island Beauty.

Melons require a rich sandy loam. If the ground is not rich enough a couple of shovels full of rotted manure should be mixed into each hill, which ought to be from five to six feet apart; drop ten or twelve seeds, and when the plants have two or three rough leaves, thin out to three or four plants. Canteloupes are cultivated very extensively in the neighborhood of New Orleans; the quality is very fine and far superior to those raised in the North. Some gardeners plant during February and cover with boxes, the same as described for Cucumbers. When Melons are ripening, too much rain will impair the flavor of the fruit.

Osage Musk Melon. This variety is cultivated largely for the Chicago market. It is small and does not look very attractive, but is of excellent flavor. Recommend it highly for family use. It will not sell well in this market. People here are accustomed to roughly netted melons, such as the New Orleans Market. The Osage is smooth and very slightly netted.

Netted Nutmeg Melon. Small oval melon, roughly netted, early, and of fine flavor.

Netted Citron Melon. This variety is larger than the foregoing kind; it is more rounded in shape, of medium size and roughly netted.

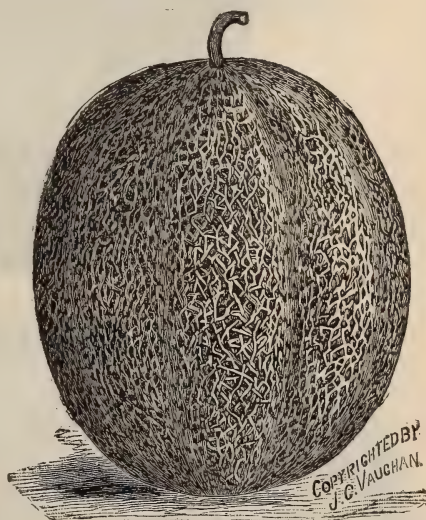
Pine Apple Melon. A medium sized early variety, oval in shape, and of very fine flavor.

Early White Japan Melon. An early kind, of creamish white color, very sweet and medium size.

Persian or Cassaba. A large variety, of oval shape and delicate flavor. The rind of this kind is very thin, which is a disadvantage in handling, and prevents it from being planted for the market. Very fine for family use.

New Orleans Market. A large species of the citron kind. It is extensively grown for this market; large in size, very roughly netted and of luscious flavor; different altogether from the Northern Netted Citron, which is earlier but not so fine in flavor, and not half the size of the variety grown here.

The New Orleans Market cannot be excelled by any other variety in the world. In a favorable season it is a perfect gem. It has been tried alongside of varieties praised at the North, such as are brought out every year, but none of them could compare with the New Orleans Market. Northern grown seed do not thrive here. It requires a Southern sun to bring the seed to per-



Osage Melon.

fection. Small varieties of melons will improve in size if cultivated here for a number of years, and if care is taken that no Cucumbers, Squashes, Gourds, or Pumpkin are cultivated in the vicinity. If the best and earliest specimens are selected for seed, in three or four years the fruit will be large and fine.

New Early Hackensack. A newly introduced variety, resembling the well known Hackensack, but not quite so large. It is productive and of good flavor. The seed we offer are Southern grown. It is earlier than the New Orleans Market. Recommend same highly.

Emerald Gem. A medium size Melon which originated in Michigan. It is almost round, of very good quality, the skin is green and smooth; flesh salmon, fine grained and thick. Good variety for family use.

Long Island Beauty. A splendid new variety of the Hackensack type, originated on Long Island. It is of very superior quality, with green flesh, and densely netted. In shape it resembles the Hackensack, but is

slightly more ribbed, and is decidedly the most attractive looking melon we have ever seen. Besides being the most beautiful, it is also the earliest of all.



New Orleans Market Melon.

MELON—WATER.

MELON D'EAU [Fr.], WASSERMELONE [Ger.], SANDIA [Sp.]

Ice Cream (white seeded.)

Mammoth Iron Clad.

Rattle Snake.

Pride of Georgia.

Kolb Gem.

Seminole.

Florida Favorite.

Lone Star.

Duke Jones.

Water Melon will grow and produce in places where Canteloupes will not do well. The soil for this plant must be light and sandy. Plant in hills about eight feet apart, eight to twelve seeds in a hill; when the plants are well up thin out to three. The plants should be hoed often, and the ground between the hills kept clean till the vines touch.

Ice Cream. (WHITE SEEDED.) A medium sized variety of excellent quality. It is early and very productive. Being thin in the rind it is not so well adapted for the market as the other kinds; notwithstanding this it is grown exclusively by some for that, on account of its earliness. It has come into general cultivation more and more every year, as it is very sweet, and sells readily in the market.

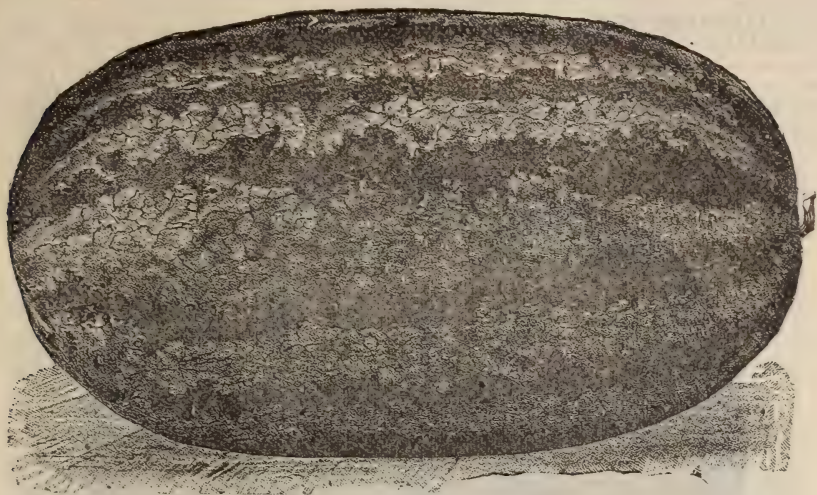
Rattle Snake. An old Southern variety which has come into notice of late years. It is of large size, light green, with large dark stripes, and is identical with the Gypsy. Fine market variety. It stands transportation better than most other kinds; has been the standard market melon till the Kolb Gem was introduced. However it always will remain a favorite with market

gardeners. The seed we offer of this variety is especially grown for us by one of the best growers in Georgia. It is one of the purest strains that can be found.

Mammoth Iron Clad. Highly recommended North. It did not do as well as Southern raised seed. We have the seed now grown in Florida, and, no doubt, it will give better satisfaction.

Pride of Georgia. A variety from Georgia of excellent quality; attains a large size when well cultivated. Very good for family use.

Kolb Gem. Only a few years since this variety has been introduced, but the shipping qualities are so good, that the bulk of Melons raised for the market are of that kind. Flesh crimson, very thin but tough rind; fine flavor and full of flesh; no hollow

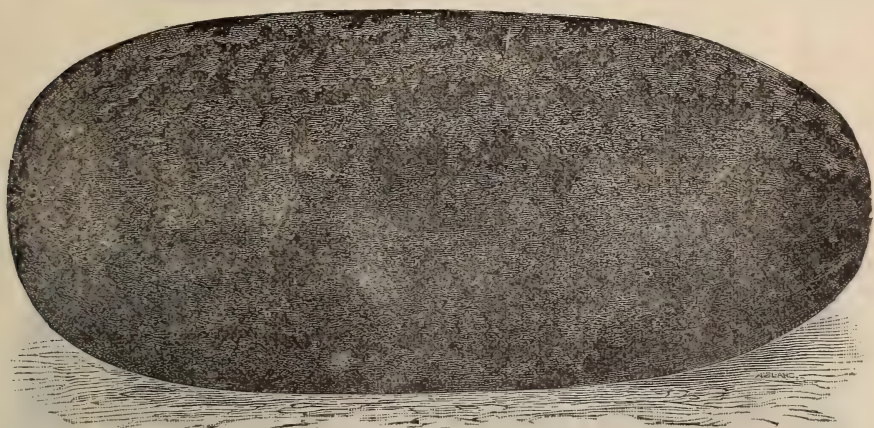


Mammoth Iron Clad.

in the middle. It is the heaviest Melon for its size. What we offer are Southern grown seeds.

Florida's Favorite. This Melon originated in Florida. It is an excellent variety; prolific, earlier than the Kolb

Gem, Rattle Snake or Pride of Georgia, and very fine for the table. It is not as good for shipping as the Kolb Gem or Rattle Snake, of medium size, colored with light and dark green stripes alternately, flesh deep red, delici-



Florida's Favorite.

ously sweet, firm and crisp. One of the best Melons.

Seminole. A novelty of recent introduction. A very early melon, oblong in shape, of two colors, some very grey and others light green resembling the Ice Cream, but larger in size. It is fine flavored and productive.

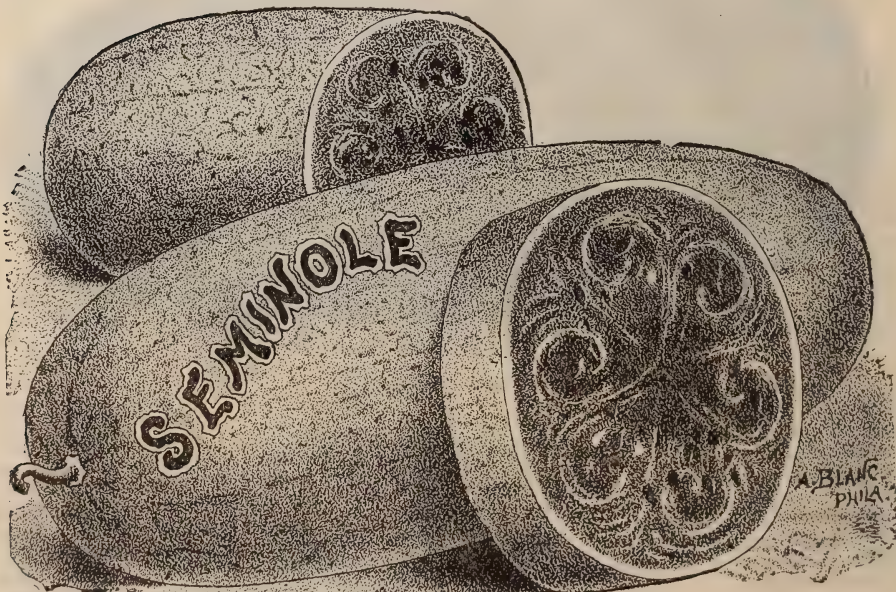
Duke Jones. A Southern Melon of great merit. It is of the same shape as the Kolb Gem, but of much finer flavor and of large size. Rind dark green, red flesh. large and early. The seed we offer has been grown from headquarters by a careful grower of Georgia. It is a good shipper. We recommend it highly.

Lone Star Water Melon. This Melon was brought here from Texas by Mr. Nat. Henderson, of Iberia Parish, La. It has proven to be the best Melon for this section, either for market or family use.

This Melon is above medium and very uniform in size; a prolific bearer. oblong in shape; the rind is of mottled green and black color, somewhat like the Rattle Snake but of a darker green. The flesh is of a



Kolb Gem.



deep red color, solid, crisp and very sweet in flavor, it cannot be excelled by any variety. It is excellent for market as well as for

family use. When better known it will become one of the leading varieties for the South. Recommend same very highly.



Pride of Georgia.



Lone Star.

MUSTARD.

MOUTARDE (Fr.), SENF (Ger.), MOSTAZA (Sp.)

This is grown to quite an extent in the Southern States, and is sown broad-cast during fall, winter and spring. It may be used the same as Spinach, or boiled with meat as greens. The White or Yellow Seeded is very little cultivated and is used chiefly for medical purposes, or pickling. The large-leaved or Curled has black seed, a distinct kind from the Northern or European variety. The seed is raised in Louisiana. It makes very large leaves; cultivated more and more every year.

*White or Yellow Seeded.**Large Leaved Curled.*

Large Leaved Curled. The favorite kind here, sown largely for the market. Leaves are pale green, large and curled or scalloped on the edges.

Chinese Very Large Cabbage*Chinese very large Cabbage Leaved.*

Leaved. A European variety, with light green very large leaves. It has not the same taste as the large-leaved or the large curled, but will stand longer before going to seed.

NASTURTIUM.

CAPUCINE (Fr.), INDIANISCHE KRESSE (Ger.), CAPUCHINA (Sp.)

*Tall.**Dwarf.*

Planted here only for ornathent. (For description see List of Climbing Plants.)

OKRA.*Green Tall Growing.**Dwarf Green Prolific.**White Velvet.*

This is a highly esteemed vegetable in the South, and no garden, whether small or large, is without it. It is used in making "Gumbo," a dish the Creoles of Louisiana know better how to prepare than any other nationality. It is also boiled in salt and water, and served with vinegar as a salad, and is considered a wholesome dish. Should not be planted



White Velvet Okra.



Tall Growing Okra

before the ground is warm in spring, as the seeds are apt to rot. Sow in drills, which ought to be two to three feet apart, and when up, thin out, and leave one or two plants every twelve or fifteen inches.

Tall Growing. This is the variety most cultivated here. The pods are long, round towards the end, and keep tender longer than the square podded kind.

Dwarf Green Prolific. This is an extra early variety, very prolific; the pods are close together, from which the name. If planted for market it will be only in demand up to the time the long podded varieties

come in; as in this market no ribbed pods sell well.

White Velvet. A white variety; dwarf with round, smooth pods, free from ridges and seams, and not prickly to the touch; very prolific and early. We tried this variety thoroughly. It has come up to what is claimed for it. We recommend to all who have not tried it.

ONION.

OGNON (Fr.), ZWIEBEL (Ger.), CEBOLLA (Sp.)

Red Bermuda.

White Bermuda.

Louisiana or Creole.

White Queen.

The following cut represents a well-grown Onion raised from Louisiana or Creole seed. The Onion is one of the most important vegetables planted in this section. Thou-



sands of barrels are annually shipped from here to the West and North. If sown at the proper time, with ordinary cultivation, they will always produce a crop and meet with ready sale. The seed is not a sure crop every year and some years it sells very high; the past season the crop was very small. Different varieties of Italian kinds have been tried here, but none produce good bulbs but the **True Red Bermuda**, which is raised at Teneriffe and the coast of Africa. It is a flat shaped onion, a little lighter in color than the Creole, earlier, and does not shoot up like that kind; comes in the market just after the shipping from the West is exhausted and hits the market at the proper time. We would recommend the Bermuda for home use and home market, but for shipping to distant markets it is unfit, as it decays quickly, and when dry peels off. The Creole has the preference, even shot up onions sell for a better price than the Bermuda. *None of the Northern grown seed sown here will produce any Onion.*

White Bermuda Onion. This variety is of the same shape, size and flavor as the Red Bermuda; the only difference is in the color, which is pure white. Very good for family use.

The **Louisiana or Creole Onion** has been cultivated here for a century—supposed to have been brought here first from the south of Europe; we presume the bulbs produced but few seeds. It is hard to say from what variety this Onion originated; having been planted here for so long it has become a distinct kind. It is not as red as the Wethersfield, and not as light as the Strassburg; in flavor it is similar to the two last named varieties, but much stronger than the Italian kinds. In this latitude the seed should be sown from the 15th of September to about the 10th of October; if sown sooner, a good many will throw up seed stalks, which impairs the keeping quality of the Onion. We sow the seed broadcast, protect the seed beds by spreading green moss over them, which is removed every evening and replaced in the morning. Some gardeners use *Latanias* for covering the beds. When the seed is coming up, say in 7 or 9 days, the cover has to be removed entirely; but if the weather is dry, the watering has to be continued. They thrive best in loamy soil. Can be planted in the same ground for years, and require no rotation as other crops.

When the plants have reached the size of a goose quill, they are transplanted into rows

which can be from one to two feet apart, according to the mode of cultivation, and about five or six inches apart in the rows. The ground should be thoroughly prepared before setting out the plants. We generally shorten the tops and roots. In April the Onion will be ready to be taken up.

In sections where it is too cold to sow Onion seed in the fall, the Creole seed can be sown in January and February; in that case they should be sown very thinly in drills, thinned out to a proper stand, and by the end of spring they will produce a good sized Onion. Growers here use very little, if any fertilizers, but it can be used with advantage. For spring sowing, we recommend the Bermuda seed.

The seed of the Creole Onion, which we offer, is grown for us by an experienced Onion grower at Lafourche. No better stock can be found. We do not depend upon chance purchases; very often seed raised from shot up Onions are sold very low, but will not produce good merchantable Onions, having a tendency to go to seed again before the bulb is matured. Most gardeners here know all about the cultivation of the Creole Onion; these remarks, therefore, are made for those who live in adjoining States where the Creole Onion can be successfully cultivated—more so in Texas, Mississippi and Florida. The demand for Creole Onion seed from these sections increases every year, especially from Texas.



ITALIAN ONION.

White Queen. This is a medium sized, white variety from Italy, very early and flat; can be sown as late as February, and

good sized bulbs will yet be obtained. It is of mild flavor and very fine when boiled and dressed for the table. It cannot be too highly recommended.

SHALLOTS.

ESHALLOTTE (Fr.), SCHALLOTEN (Ger.)

A small sized Onion which grows in clumps. It is generally grown in the South, and used in its green state for soups, stews, etc. There are two varieties, the Red and White; the latter variety is the most popular. In the fall of the year the bulbs are divided and set out in rows a foot apart, and four to six inches in the rows. They grow and multiply very fast, and can be divided during winter and set out again. Late in the spring, when the tops become dry, they have to be taken up, thoroughly dried, and stored in a dry, airy place.

PARSLEY.

PERSIL (Fr.); PETERSILIE (Ger.), PERJIL (Sp.)

Plain Leaved.
Double Curled.

Improved Garnishing.

Parsley can be sown during the fall from August to October, and during spring, from the end of January to the end of April. It is generally sown broadcast.

Plain Leaved. This is the kind raised for the New Orleans market.

Double Curled. The leaves of this variety are curled. It has the same flavor

as the other kind, extensively raised for shipping purposes.

Improved Garnishing. This is the best kind to ornament a dish; it has the same flavor as the other kinds.

PARSNIP.

PANAIS (Fr.), PASTINAKE (Ger.), PASTINACA (Sp.)

Hollow Crown or Sugar.

Should be sown in deep, mellow soil, deeply spaded, as the roots are long, in drills twelve to eighteen inches apart, when the plants are three inches high, thin out to three inches apart in the rows. Sow from September to November for winter, and January to March for spring and summer crops.

The Hollow Crown, or Sugar, is the kind generally cultivated; it possesses all the good qualities for which other varieties are recommended.

PEAS.

POIS (Fr.), ERBSE (Ger.), GUISANTE (Sp.)

EARLIEST.

Early Alaska, 2 ½ feet.
Extra Early, or first and Best, 2 ½ feet.
Early Washington, Early May or frame, 3 feet.
Early Tom Thumb, 1 foot.
Laxton's Alpha, 3 feet.
American Wonder, 1 ½ feet.
Blue Beauty, 2 feet.

SECOND CROP.

Bishop's Dwarf Long Pod, 1 ½ feet.
Champion of England, 5 feet.
McLean's Advancer, 3 feet.

McLean's Little Gem, 1 ½ feet.
Laxton's Prolific Long Pod, 3 feet.
Eugenie, 3 feet.
Carter's Strategem, 2 ½ feet.
Carter's Telephone, 5 feet.
Paragon, 3 feet.

GENERAL CROP.

Dwarf Blue Imperial, 3 feet.
Royal Dwarf Marrow, 3 feet.
Black Eyed Marrowfat, 4 feet.
Large White Marrowfat, 4 feet.
Dwarf Sugar, 2 ½ feet.
Tall Sugar, 6 feet.

Peas are a fine vegetable, and therefore are very generally cultivated. It is best to plant in ground manured the previous year, else they will make more vines than peas. As a general thing the dwarf kinds require richer ground than the tall growing varieties. Marrowfat Peas, planted in rich ground will not bear well, but they produce finely in sandy light soil.

The Extra Early Tom Thumb and Laxton's Alpha will not produce a large crop without being in rich ground. Peas have to be planted in drills two inches deep and from two to three feet apart, according to the height they may grow. Tom Thumb can be planted one foot apart, whereas the White Marrowfat or Champion of England require three feet.

The Extra Early Alpha and Tom Thumb can be planted during August and September for fall. During November and December we plant the Marrowfat; January and February or as late as March, all kinds can be planted; but for the latter month only the earliest varieties should be used, as the late varieties will get mildewed before they bring a crop. Peas will bear much better if some brush or rods are stuck in the drills to support them, except the very dwarf kinds.



Early Alaska.

Early Alaska. This is an extra early Pea, blue in color, the earliest by a few days of any other kind; very pure and prolific, the best flavored pea among the Extra Early smooth podded kinds. Recommend it highly.

Extra Early or First and Best. This was the earliest Pea cultivated, until the introduction of the Alaska; very popular with the small market gardeners here, who have rich grounds. It is very productive and well flavored. The stock we sell is as good as any, no matter whose name is put before "Extra Early."

Early Washington, Early May or Frame, which are nearly all the same thing, is about ten days later than the Extra Early. It is very productive, and keeps longer in bearing than the foregoing kind. Pods a little smaller. Very popular about New Orleans.

Early Tom Thumb. Very dwarfish and quite productive. Can be cultivated in rows a foot apart; requires no branches or sticks.

Laxton's Alpha. This is the earliest wrinkled pea in cultivation; of delicious flavor and prolific. This variety deserves to be recommended to all who like a first-class pea. It will come into general cultivation when better known.

American Wonder. A wrinkled pea of dwarf growth; 10 to 12 inches; is prolific, early, of fine quality, and comes in after the Extra Early.

Blue Beauty. An extra early variety of compact growth; productive and of fine flavor. Good market variety.

Bishop's Dwarf Long Pod. An early dwarf variety; very stout and branching, requires no sticks but simply the earth drawn around the roots. It is productive and of excellent quality.

Champion of England. A green wrinkled variety of very fine flavor; not profitable for the market, but recommended for family use.

McLean's Advancer. This is another green wrinkled variety, about two weeks earlier than the foregoing kind.

McLean's Little Gem. A dwarf wrinkled variety. It is early, very prolific and of excellent flavor. Requires no sticks.

Laxton's Prolific Long Pod. A green narrow pea of good quality. Pods are long and well filled. It is second early, and can be recommended for the use of market gardeners, being very prolific.

Eugenie. A white wrinkled variety, of fine flavor; it is of the same season as the Advancer. Cannot be too highly recommended for family use.

Carter's Strategem. This is a wrinkled variety from England. It is very distinct in vine and foliage; growing thick and large, does not need any support. It is the Largest Podded variety ever brought out; pods 4-5½ inches long, which cannot

be surpassed in flavor, and is very productive. Recommend it highly.

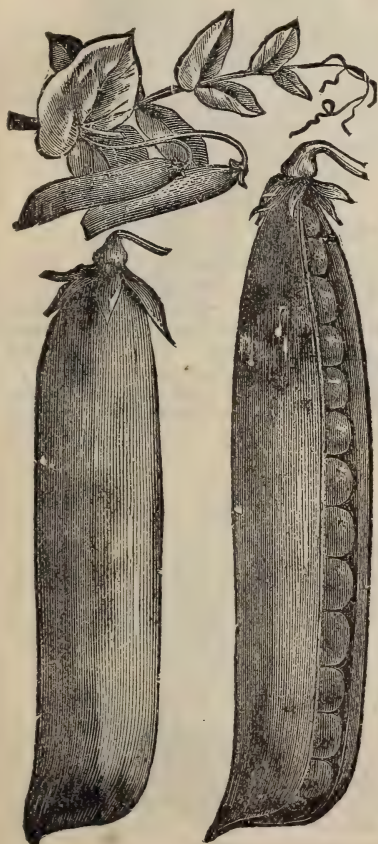
Carter's Telephone. Another wrinkled English late variety; grows about from 4½ to 5 feet high. The pods are very long, containing from 8-12 fine flavored peas. It is productive; will bear twice as much as the Champion of England, which is about of the same season.

Paragon. Recently introduced by W. H. Grenell. It is a white wrinkled pea, second early, long straight pods containing six to nine peas. Short stocky vine with luxuriant foliage, pods light green; quality unsurpassed, and the largest producer known. It will stand more heat than any other variety, not affected by mildew.

Dwarf Blue Imperial. A very good bearer if planted early, pods are large and well filled.

Royal Dwarf Marrow. Similar to the large Marrowfat, but of dwarf habit.

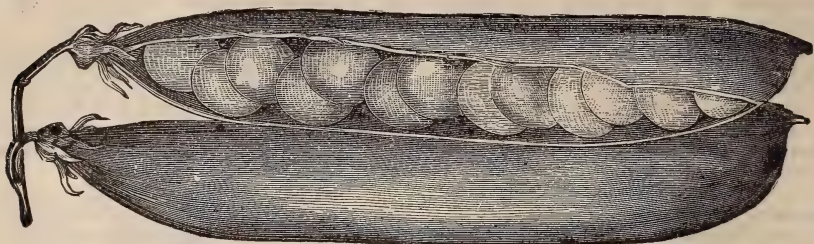
Black-eyed Marrowfat. This kind is planted more for the market than any other. It is very productive, and when



Extra Early, or First and Best.



Carter's Strategem.



Carter's Telephone.

young, quite tender. Grows about four feet high.

Large White Marrowfat. Similar to the last variety, except that it grows about two feet taller and is less productive.

Dwarf Sugar. A variety of which the whole pod can be used after the string is

drawn off from the back of the pod. Three feet high.

Tall Sugar. Has the same qualities as the foregoing kind, only grows taller, and the pods are somewhat larger. Neither of these two varieties are very popular here.

THE PEA BUG.

All peas grown near Philadelphia have small holes in them, caused by the sting of the Pea Bug, while the pod is forming, when it deposits its egg in it. Later the insect perfects itself and comes out of the dry pea, leaving the hole.

The germ of the pea is never destroyed, and they grow equally as well as those without holes. Market gardeners in this neighborhood who have been planting the Extra Early Peas for years, will not take them without holes, and consider these a trade mark.

FIELD or COW PEAS.

There are a great many varieties of Cow Peas, different in color and growth. They are planted mostly for fertilizing purposes and are sown broad-cast; when in a good stand, and of sufficient height, they are plowed under. The Clay Pea is the most popular. There are several varieties called crowders, which do not grow as tall as the others, but produce a great many pods, which are used green, the same as snap beans, and if dried, like dried beans, make a very good dish. The crowders are of an oblong shape, almost pointed at one end; they are on an average larger than the other Field Peas. Lady Peas are small, white, with a black eye; they are generally planted between corn, so that they can run upon it. Dry, they are considered the very best variety for cooking. The Clay and Unknown Peas produce the most vines.

PEPPER.

PIMENT (Fr.), SPANISCHER PFEFFER (Ger.), PIMENTO (Sp.)

Sweet Spanish or Monstrous.
Sweet Pepper. Ruby King.
Golden Dawn Mango.
Bell or Bull Nose.
Long Red Cayenne.

Red Cherry.
Bird Eye.
Chili.
Tabasco.
Red Cluster.

Peppers are tender and require to be raised in the hot bed. Seed should be sown in January, and when large enough transplanted into the ground in rows from one and a half to two feet apart, and a foot to a foot and a half in the rows. There are more Peppers raised here than in other sections of the country; the hot varieties are used for seasoning and making pepper sauce; the mild variety is highly esteemed for salad. Care should be taken not to grow different kinds close together, as they mix very readily.

Sweet Spanish or Monstrous. A very popular variety, much cultivated. It is very mild, grows to a large size, tapering towards the end, and, when green, is used as a salad. Superior for that purpose to any other kind.

Sweet Pepper, Ruby King. This variety grows to a larger size than the Sweet Spanish Monstrous, and is of different shape. The fruit is from 5 to 6 inches long by about 3 to 4 inches in diameter, and of bright red color. It is remarkably mild and pleasant in flavor, and can be sliced and eaten as a salad the same as the Spanish Monstrous. Single plants ripen from 8 to 10 fruits, making this variety both productive and profitable. A decided acquisition.

Golden Dawn Mango. This sweet pepper attracted much attention for the last few years, and was admired by all who saw it. We believe it to be all the originator claims for it. In shape and size it resembles the Bell. Color, a bright waxy golden yellow; very brilliant and handsome. Single plants ripen from twelve to twenty-four fruits, making them productive and profitable. They are entirely exempt from any fiery taste or flavor, and can be eaten as readily as an apple.

Bell or Bull Nose. Is a large oblong variety which is not sweet or mild, as thought by some people. The seeds are very hot. Used for pickling.

Long Red Cayenne. Is very hot and pungent. Cultivated here and used for



Sweet Spanish, or Monstrous Pepper.



Long Red Cayenne Pepper.



Red Cluster Pepper



Red Cherry Pepper.

pepper sauce and seasoning purposes. There are two varieties, one is long and straight, and the other like shown in cut, which is the only kind we keep.

Red Cherry. A small, roundish variety, very hot and productive.

Bird Eye. Small, as the name indicates. It is very hot and used principally for pepper vinegar.

Chili. A small variety, from three-fourths to an inch long. It is strong and used for pepper sauce; very prolific.

Tabasco Pepper. This variety of pepper is grown for the market as well as for making sauce. It is pungent and strong, also very prolific. It is easily gathered, as the fruit does not adhere to the stem and grows almost erect on the branches, as may be seen in the cut. This variety is used in manufacturing the well-known Tabasco Sauce. It is splendid for family use.

Red Cluster. A new variety of which the pods grow in bunches, upright like the Chili, which the pods resemble, but are a little larger. Quite distinct and ornamental on account of the bright fruit and compact growth of the plant. It is hot and pungent.



Sweet Pepper Ruby King.



Tabasco Pepper.

POTATOES.

POMME DE TERRE (Fr.), KARTOFFEL (Ger.)

Early Rose.

Breese's Peerless.

Extra Early Vermont.

Beauty of Hebron.

Pride of the South.

White Elephant.

Rural Blush.

Rural New Yorker No. 2.

Early Triumph.

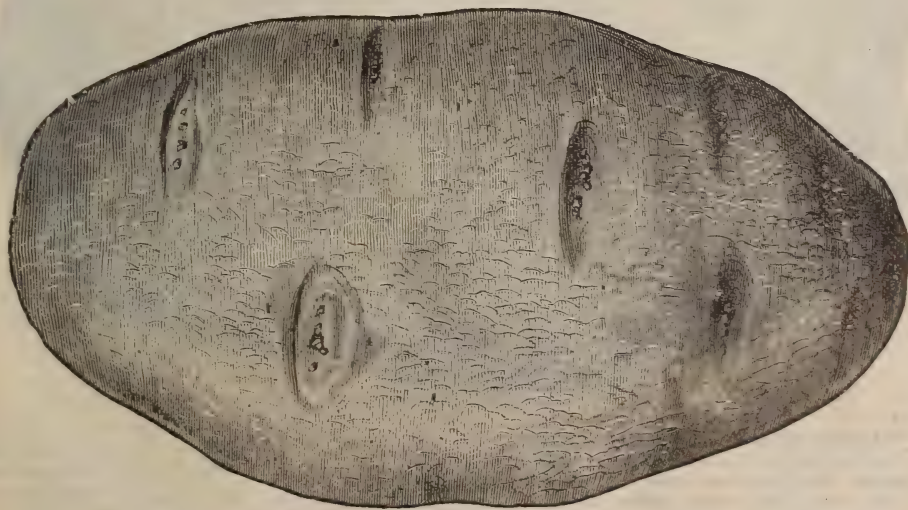
The above varieties were tried on the grounds of the Louisiana Experiment Station at

Calhoun, La., and Audubon Park, New Orleans, among 150 different kinds tested they gave about the best results, both in yield and quality.

Potatoes thrive and produce best in a light, dry but rich soil. Well decomposed stable manure is the best, but if not to be had, cotton seed meal, bone dust, or any other fertilizer should be used to make the ground rich enough. If the ground was planted the fall previous with Cow Peas, which were plowed under, it will be in good condition for potatoes. Good sized tubers should be selected for planting, which can be cut in pieces not too small, each piece ought to contain at least three eyes. Plant in drills from two to three feet apart, according to the space and how to be cultivated afterwards. Field culture, two and a half to three feet apart; for garden, two feet will answer. We plant potatoes here from end of December to end of March, but the surest time is about the first of February. If planted earlier they should be planted deeper than if planted late, and hilled up as they grow. If potatoes are planted shallow and not hilled up soon, they will suffer more, if caught by late frost, than if planted deep and not hilled up well. Early potatoes have not the same value here as in the North, as the time of planting is so long, and very often the first planting gets cut down by a frost, and a late planting, which may just be peeping through the ground, will escape and produce in advance of the first planted. A fair crop of potatoes can be raised here if planted in August; if the autumn is not too dry, they will bring nice tubers by the end of November. They should not be cut if planted at this time of the year, but planted whole. They should be put in a moist place before planting, so they may sprout. The early varieties are preferable for this time of planting.

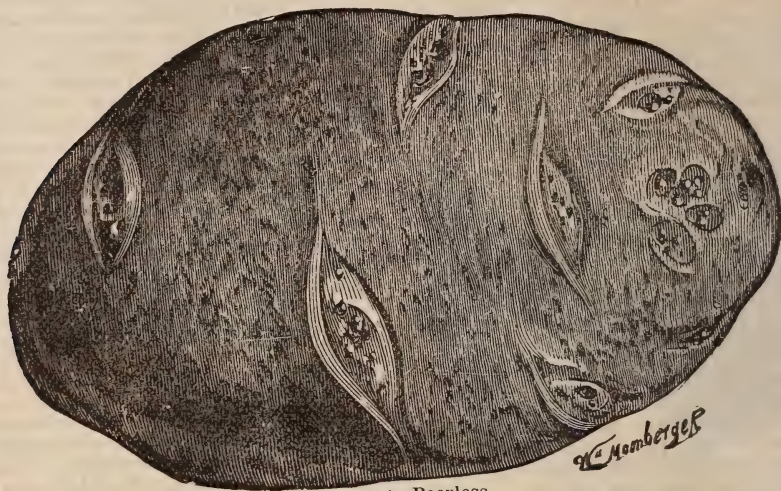
All new kinds introduced have been tried here, but of late so many have come out that it is almost impossible to keep up with them. New varieties of potatoes come out with fancy prices, but these prices for new potatoes do not pay here, as we can keep none over for seed, and any person raising for the market would not realize a cent more for a new fancy variety per barrel, than for a barrel of good Peerless or Early Rose. Earliness is no consideration, as we plant from December to end of March. Somebody may plant Early Rose in December and another in February, and those planted in February come to the market first; it depends entirely upon the season. If late frosts set in, early planted Potatoes will be cut down, and those just coming out of the ground will not be hurt.

Up to now the Peerless is the standard variety. Among the new kinds tried here we find the White Elephant to be a fine potato. It is a very strong grower, tubers oblong very productive, good quality and flavor. The Extra Early Vermont, Beauty of Hebron, Early Triumph, Pride of the South and Early Rose for early, and Peerless, White Elephant and Rural New Yorker for late, are as good varieties as exist, and it is not likely

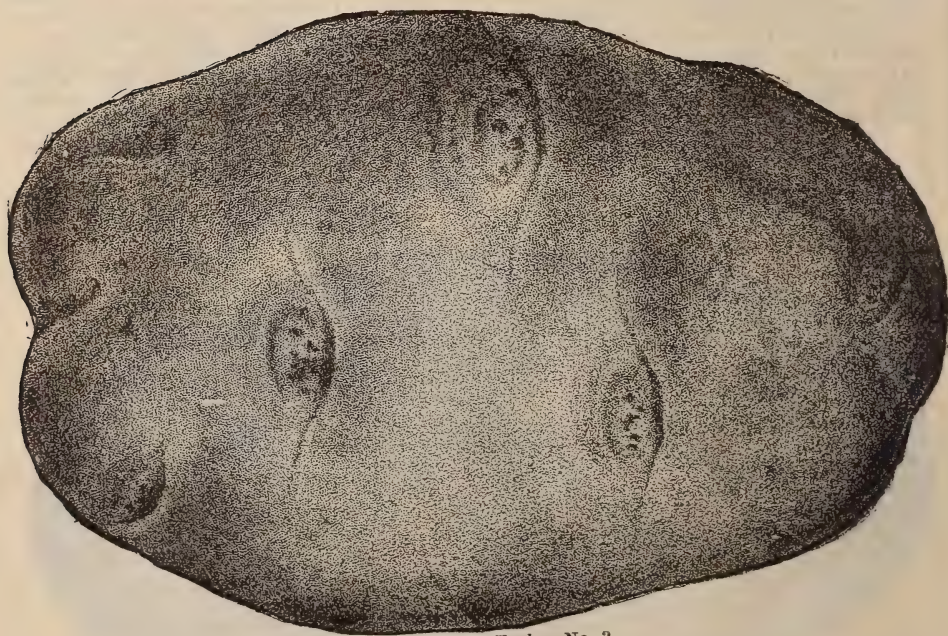


Extra Early Vermont.

that we will have anything better by new introductions. The Rural Blush, which was introduced some years ago, may be added to the late varieties; it is of excellent quality, strong grower and yields heavily. Most people are not careful enough in selecting their seed. Some of the potatoes sold in this market for seed are not fit for planting.



Breese's Peerless.



Rural New Yorker No. 2.

Early Rose. This is, without any doubt, the best potato for the table. It is oval, very shallow-eyed, pink skinned, very dry, and mealy when boiled. It has not become so popular as it deserves as a market variety, as pink or red potatoes do

not sell so well here as the white kinds. This variety should not be planted too soon, from the fact that they make small stalks, and if cut down by frost, they suffer more than other varieties; but they want rich, light soil to grow to perfection.

Breeze's Peerless. Several years ago this variety was introduced, yet at present it is the leading kind for market as well as for family use. Skin dull white, sometimes slightly russetted; eyes few and shallow, round, occasionally oblong; grows to a large size; very productive, and earlier than the Jackson White. As white potatoes are more salable than pinkish kinds, and as this variety is handsome in appearance and of good quality, it has become the general favorite in this section.

Extra Early Vermont. Very similar to the Early Rose, but of a stronger growth; a little earlier, and the tubers are more uniform and larger. It is an excellent table variety.

Beauty of Hebron. We have tried this variety thoroughly and found it in every particular as has been represented. It is earlier than the Early Rose, which resembles it very much, being a little lighter and more russetted in color. It is productive and of excellent table quality; more mealy than the Early Rose.

Pride of the South. A variety tried here for the first time three years ago. It is a white potato, round in shape, of excellent quality, extra early and prolific.

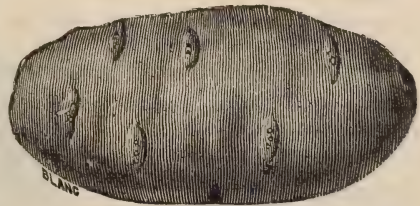
White Elephant. This variety has again given entire satisfaction. The tubers are large and of excellent quality; planted

alongside the Peerless, it produced fully one-third more than that variety.

Rural Blush. Second early, tubers roundish flattened, bluish skin, flesh slightly tinged with pink. Very dry and of excellent quality. A heavy yielder and good keeper.

Rural New Yorker No. 2. Of recent introduction. This potato is the nearest to perfection of any yet introduced, and exceeds all others in yield. It is of large size, very smooth skin; few eyes, distinct and shallow. Flesh very white, of excellent table quality.

Early Triumph. An early variety of good quality; cultivated extensively in Tennessee and other Southern localities for shipping to Northern markets. It is of a nice round shape, light red in color; earlier than the Early Rose and more prolific.



Early Rose.

THE SWEET POTATO.

Convolvulus Batatas.

The Sweet Potato is, next to corn; the most important food crop in the South. They are a wholesome and nutritious diet, good for man and beast. Though cultivated to a limited extent on the sandy lands of New Jersey and some of the Middle States, it thrives best on the light rich lands of the South, which bring their red and golden fruits to greatest perfection under the benign rays of a Southern sun. It is a plant of a warm climate, a child of the sun, much more nutritious than the Irish Potato on account of the great amount of saccharine matter it contains, and no Southern table should be found without it from first day of August till the last day of May. Some plant early in spring the Potato itself in the prepared ridges, and cut the vines from the potato when large enough, and plant them out; others start the potatoes in a bed prepared expressly for that purpose, and slip off the sprouts as they come up and set these out. The latter method will produce the earliest potatoes; others who set the vines, say that they make the largest tubers. In preparing the land the soil should be thoroughly pulverized, the ridges laid off about five feet apart, well drawn up and rather flat on top. If everything is ready, and time for planting has arrived, do not wait for a rain, make a paste of clay and cow manure; in this dip the roots of the slips and press the earth firmly around them. Old slips are more tenacious of life than young ones, and will under favorable circumstances answer best. Watering afterwards, if dry weather continues, of course will be beneficial. Otherwise plant your vines and slips just before or after a rain. Two feet apart in rows is considered a good distance. The ridges should never be disturbed by a plow from the time they are made until the potatoes are ready to be dug.

Scrape off the grass and young weeds with the hoe, and pull up the large ones by hand. Crab grass is peculiarly inimical to the sweet potato, and should be carefully kept out of the patch. The vine should never be allowed to take root between the rows. Sweet Potatoes should be dug before a heavy frost occurs; a very light one will do no harm. The earth should be dry enough to keep it from sticking to the potatoes. The old fashioned potato bank is the best arrangement for keeping them, the main points being a dry place and ventilation.

Varieties generally cultivated in the South:

The Yam. Taking into consideration quality and productiveness, the Yam stands at the head of the list. Frequently, when baked the saccharine matter in the shape of candy will be seen hanging to them in strings. Skin and flesh yellow and very sweet. Without a doubt the best potato for family use.

Southern Queen. Very similar to the former, but smoother, the tubers having no veins or very few; it is earlier.

There are some other varieties of Sweet Potatoes highly prized in the West, but not appreciated here. The red and yellow Nansemond are of a fine quality and productive, but will not sell so well as the California Yam when taken to market. For home consumption they are fine, and deserve to be cultivated.

Shanghai, or California Yam. This is the earliest variety we have, frequently, under favorable circumstances, giving good sized tubers two months after planting the vine. Very productive, having given 300 bushels per acre when planted early and on rich land. Is almost the only kind cultivated for the New Orleans market. Skin dull white or yellow, flesh white, dry and mealy, in large specimens frequently stringy.

PUMPKIN.

POTIRON (Fr.), KURBISS (Ger.), CALABAZA (Span.)

Kentucky Field.

Large Cheese.

Cashaw Crook Neck, (green striped).

Golden Yellow Mammoth.

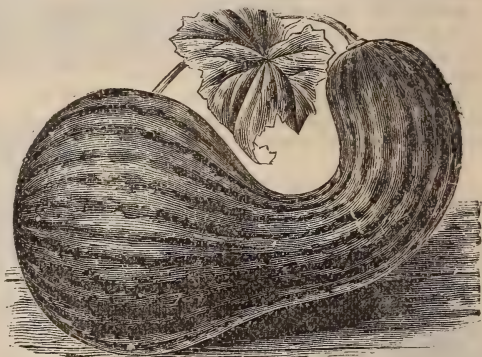
Are generally grown in the field, with the exception of the Cashaw, which is planted in the garden; but great care must be taken not to plant them close to Squashes or Melons, as they will mix and spoil their quality. plant in hills from eight to twelve feet apart.

Kentucky Field. Large round, soft shell, salmon color; very productive; best for stock.

Large Cheese. This is of a bright orange, sometimes salmon color, fine grained, and used for table or stock feeding.

Cashaw Crook Neck. This is extensively cultivated in the South for table use. There are two kinds, one all yellow and the other green striped with light yellow color. The latter is the preferable kind; the flesh is fine grained, yellow, very sweet, and better than any Winter Squash. It keeps well; it takes the place here of the Winter Squashes, which are very little cultivated. The striped variety has been cultivated here since a century and never was found North or West; within a few years it has been brought out by Northern seedsmen as "Japan Pie Pumpkin." We had this kind grown alongside of the Southern Striped Cashaw and found it one and the same.

Golden Yellow Mammoth. This is a very large Pumpkin. Flesh and skin are of a bright golden color, fine grained, and of good quality. Some were brought to the store weighing one hundred to one hundred and fifty pounds, raised on land which was not manured or fertilized.



Green Striped Cashaw Crook Neck.



Golden Yellow Mammoth.

RADISH.

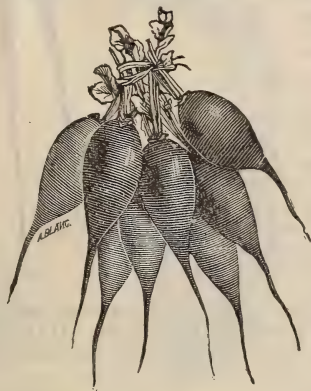
RADIES. RAVE (Fr.), RADIES, RETTIG (Ger.), RABANO (Sp.)

*Early Long Scarlet.**Chartier's Long Radish.**Early Scarlet Turnip.**Golden Globe.**Early Scarlet Olive-shaped.**White Summer Turnip.**Scarlet Half Long French.**Scarlet Olive-shaped, White-Tipped or French Breakfast.**Black Spanish (winter.)**Chinese Rose (winter.)**White Strasburgh.**White California Mammoth.*

This is a popular vegetable, and grown to a large extent. The ground for radishes should be rich and mellow. The early small varieties can be sown broad-cast among other crops, such as beets, peas, spinach, or where lettuce has been transplanted. Early varieties are sown in this section the whole year, but during summer they require frequent watering to make them grow quickly. The Golden Globe, White Summer Turnip and White Strasburgh are best for planting during the summer months. The Half Long Scarlet French is the only red kind raised for the New Orleans market, and all the other cities in the United States taken together do not use as many of that one variety as New Orleans does.



Early Scarlet Turnip.



Scarlet Half Long French.



Golden Globe.

Early Long Scarlet. This is a desirable variety; of a bright scarlet color; short top and brittle.

Chartier's Long Radish. A long Radish, described as deep crimson colored at the top, shading off lighter until at the bottom it becomes white.

Early Scarlet Turnip. A small round variety, the favorite kind for family use. It is very early, crisp and mild when young.

Golden Globe. This stands the heat better than the foregoing kinds. It is of an oblong shape, and of a beautiful bright yellow color. It should be sown very thinly. Best adapted for summer and fall sowing. The variety we keep is of the finest strain, and as good as any ever sold.

Early Scarlet, Olive-Shaped. This is similar to the Half Long French, but shorter, and not quite so bright in color. It is early and of good quality. Top short.

White Summer Turnip. This is a summer and fall variety. Oblong in shape, skin white, stands the heat well, but not much used.

Scarlet Half Long French. This is the most popular Radish for the market.

It is bright scarlet color, and when well grown, from two to three inches long, very brittle and tender.

Scarlet Olive-Shaped. White tipped, or **French Breakfast.** A handsome Radish of the same shape as the foregoing kind, with end and root white. Quite tender.

Black Spanish. (WINTER.) This is sown during fall and early winter. It is olive in shape, solid, and stands considerable cold weather without being hurt. It can be sown broad-cast between turnips or planted in rows a foot apart; thinned out from three to four inches in the rows.

Chinese Rose. (WINTER.) This is of a half long shape, and bright rose color. It is as hardy as the last described, not so popular, but superior to the foregoing kind. Consider it the best winter variety.

White Strasburgh. This variety is of recent introduction, of an oblong, tapering shape; the skin and flesh are pure white, firm, brittle and tender, and has a tendency of retaining its crispness even when the roots are old and large. It is a very good kind for summer

use, as it withstands the severe heat, and grows very quickly. The seed can be planted throughout the summer, and fine large roots will be rapidly formed. It is an excellent variety for family use, as well as for the market.

White California Mammoth. This is a winter variety of large size, but can be sown here in early spring. It is the largest of all the Radishes, and grows from 8 to 12 inches long, 2 to 3 in diameter.

ROQUETTE.

ROQUETTE (French.)

Sown from September to March. It is used as a salad, resembles the Cress in taste.

SALSIFY, or OYSTER PLANT.

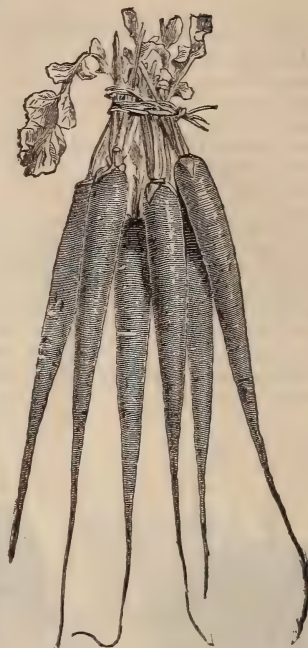
SALSIFIS (Fr.), HAFERWURZEL (Ger.),

OSTRA VEGETAL (Sp.)

Sandwich Island Mammoth.

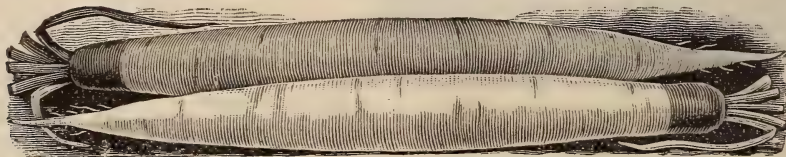
A vegetable which ought to be more cultivated than it is. It is prepared in different ways, and partakes of the flavor of oysters. It should be sown in the fall of the year, not later than November. The ground ought to be manured the spring previous, deeply spaded and well pulverized. Sow in drills about ten inches apart, and thin out from three to four inches in the rows.

Sandwich Island Salsify. (Mammoth.) This is a sort that grows much quicker than the old varieties. It attains a



Early Long Scarlet Radish.

large size; can be called with right mammoth. It is very superior to the old kinds and has come into general cultivation.



Sandwich Island Mammoth Salsify.

SPINACH.

EPINARD (Fr.), SPINAT (Ger.), ESPINAGO (Sp.)

Extra Large Leaved Savoy.

Broad Leaved Flanders.

A great deal of this is raised for the New Orleans market. It is very popular. Sown from September to the end of March. If the fall is dry and hot, it is useless to sow it, as the seeds require moisture and cool nights to make them come up. The richer the ground the larger the leaves.

Extra Large Leaved Savoy. The leaves of this variety are large, thick and a little curled. Very good for family use.

Broad Leaved Flanders. This is the standard variety, both for market and family use. Leaves large, broad and succulent.

SORREL.

OSEILLE (Fr.), SAUERAMPFER (Ger.), ACEDERA (Sp.)

Planted in drills a foot apart, during the fall of the year, and thinned out from three to four inches in the drills. Sorrel is used for various purposes in the kitchen. It is used the same as Spinach; also in soup and as salad.

SQUASH.

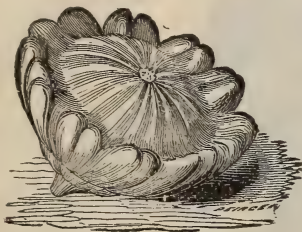
COURGE [Fr.], KURBISS [Ger.], CALABAZA TONTANERA [Sp.]

*Early Bush, or Patty Pan.**The Hubbard.**Long Green, or Summer Crook Neck.**Boston Marrow.*

Sow during March in hills from three to four feet apart, six to eight seeds. When well up thin them out to three of the strongest plants. For a succession they can be planted as late as June. Some who protect by boxes, plant as soon as the first of February, but it is best to wait until the ground gets warm. When it is time to plant Corn it is also time to plant Squash.

Early Bush, or Patty Pan. Is the earliest and only popular kind here. All other varieties are very little cultivated, as the Green Striped Cashaw Pumpkin takes their place. It is of dwarfish habit, grows bushy and does not take much room. Quality as good as any.

Long Green, or Summer Crook-Neck. This is a strong grower, and continues in bearing longer than the first named kind. It is of good quality, but not so popular.



Early Bush or Patty Pan.



Long Green or Summer Crook Neck.



The Hubbard.

The Hubbard. This is a winter Squash highly esteemed in the East, but hardly cultivated here. It is, if planted here, inferior to the Southern Striped Cashaw Pumpkin, which can be kept from one season to another, and is superior in flavor to the former kind.

Boston Marrow. Cultivated to a large extent North and East for winter use, where it is used for custards, etc. It keeps for a long time and is of excellent quality, but not esteemed here, as most people consider the Southern grown Cashaw Pumpkin superior to any winter Squash.

TOMATO.

TOMATE [Fr.], LIEBESAPFEL [Ger.], TOMATE [Sp.]

*King of the Earlys.**Extra Early Dwarf.**Horsford's Prelude.**Dwarf Champion.**Early Large Smooth Red**Selected Trophy.**Large Yellow.**Acme.**Paragon.**Livingston's Perfection.**Livingston's Favorite.**Livingston's Beauty.*

Seed should be sown in January, in hot beds, or in boxes, which must be placed in a sheltered spot, or near windows. In March they can be sown in open ground. Tomatoes are generally sown too thick and become too crowded when two or three inches high, which makes the plants thin and spindly. If they are transplanted when two or three inches high, about three inches apart each way, they will become short and sturdy, and will not suffer when planted into the open ground. Plant them from three to four feet apart. Some varieties can be planted closer; for instance, the Extra Early, which is of very dwarfish habit, two and a half feet apart is enough.

They should be supported by stakes. When allowed to grow up wild, the fruit which touches the ground will rot. For a late or fall crop the seed should be sown toward the latter part of May and during June.



Extra Early Dwarf.



Livingston's Favorite.



King of Earlies.



Paragon.

productive. For an early market variety it cannot be surpassed.

Dwarf Champion. This is a distinct kind. The plants grow stiff and upright, and need no support as other kinds. Can be planted closely together, three feet apart. It is early and productive; the fruit resembles the Acme, but is of lighter color, ripens up even and does not crack.

Early Large Smooth Red. An early kind of medium size; smooth and productive.

Selected Trophy. A very large, smooth Tomato, more solid and heavier than any other kind. Has become a favorite variety.

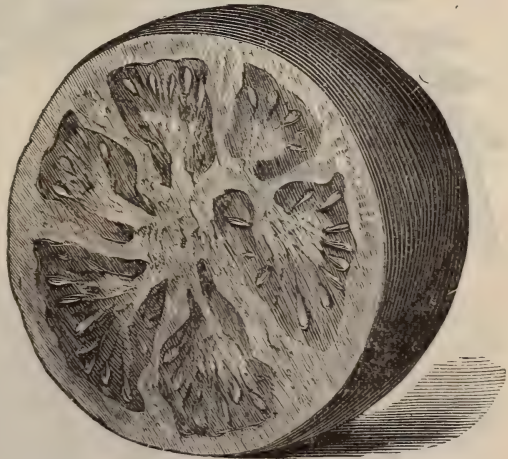
Large Yellow. This is similar in shape to the Large Red, but more solid. Not very popular.

Acme. This is one of the prettiest and most solid Tomatoes ever introduced. It is of medium size, round and very smooth, a strong grower, and a good and long bearer. It is the perfection of Tomatoes for family use, but will not answer for shipping purposes; the skin is too tender, and cracks when fully ripe. Of all the varieties introduced none has surpassed this kind when all qualities are brought into consideration. It does well about here where the ground is heavy.

Paragon. This is a very solid variety, of a bright reddish crimson color, comes in about the same time as the Tilden, but is heavier in foliage and protects its fruit. It is productive and keeps long in bearing. Well adapted for shipping.

King of the Earlies. This variety was introduced here by the late Richard Frotcher a few years ago. It is very early and productive; color bright red, of good size and quite solid. The vine is medium, stout and branching. The buds appear soon, blossoms as a rule adhere and produce fruit. It is so much earlier than the Livingston varieties, that it should be planted for the first. The latter kind are so handsome in shape that they will sell better than any other, when the market is once well supplied.

Extra Early Dwarf. This is the earliest in cultivation. It is dwarfish in habit; fruit larger than the following kind, and more flat; bright scarlet in color and very



Acme Tomato.



Selected Trophy.



Livingston's Beauty.

Livingston's Perfection.

Very similar to the foregoing in shape and color.

Livingston's Favorite.

This Tomato is as perfect in shape and as solid as the Acme, but much larger, and of a handsome dark red color. We had some sent to our store by a customer, and they surely were the finest specimen of tomatoes we ever saw, and were admired by everybody who saw them. They will keep well, and do not crack. It has become the standard variety for this market.

Livingston's Beauty.

This variety is quite distinct in color, being a very glossy crimson with a light tinge of purple; (lighter than the Acme.) It ripens with the Acme or Paragon, but keeps longer. It is very perfect in shape and does not crack, like some of the thin skinned sort.



Dwarf Champion.

TURNIP.

NAVET (Fr.), RUEBE (Ger.), NABO COMUN (Sp.)

Early Red or Purple Top (strap-leaved.

Early White Flat Dutch (strap-leaved.)

Purple Top Globe.

Large White Globe.

Pomeranian Globe.

White Spring.

Yellow Aberdeen.

Golden Ball.

Amber Globe.

Early Purple Top Munich.

Improved Ruta Baga.

Long Island Purple Top Ruta Baga.

Extra Early White French, or White

Egg Turnip.



Early Red or Purple Top (strap-leaved.)

Turnips do best in new ground. When the soil has been worked long, it should receive a top dressing of land-plaster or ashes. If stable manure is used the ground should be manured the spring previous to sowing, so it may be well incorporated with the soil. When fresh manure is used the turnips are apt to become speckled. Sow from end of July to October for fall and winter, and in January, February and March for spring and summer use. They are generally sown broad-cast, but the Ruta Baga should be sown in drills, or rather ridges, and should not be sown later than the end of August; the Golden Ball and Aberdeen not later than the end of September. The White Flat Dutch, Early Spring and Pomeranian Globe are the best for spring, but also good for autumn.

Early Red or Purple Top. (STRAP-LEAVED.) This is one of the most popular kinds. It is flat, with a small tap-root, and a bright purple top. The leaves are narrow and grow erect from the bulb. The flesh is finely grained and rich.

Early White Flat Dutch. (STRAP-LEAVED.) This is similar to the above in shape, but considered about a week earlier. It is very popular.

Purple Top Globe. Of same shape as the Pomeranian Globe; but with purple top. Fine variety for table or stock. It is not quite so early as the Early Red or Purple Top. We recommend it very highly.

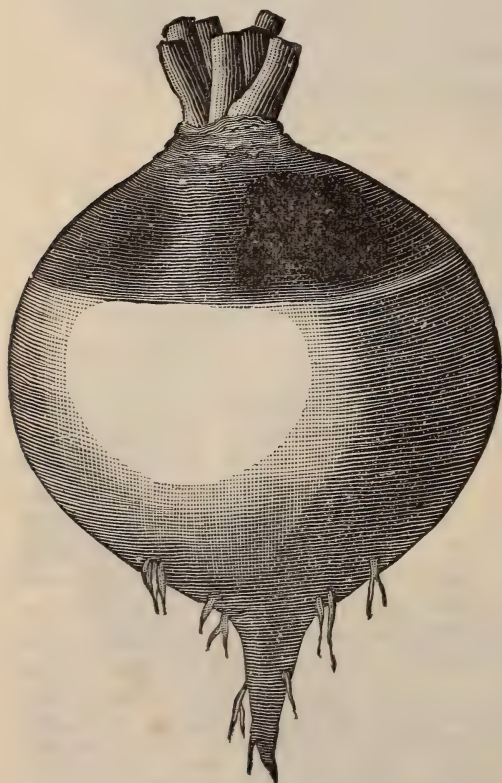
Yellow Aberdeen. This is a variety very little cultivated here. It is shaped like the Ruta Baga, color yellow with purple top. Good for table use or feeding stock.

White Spring. This is similar to the White Flat Dutch; not quite so large, but round in shape. The tops are large, it is early, a good quality, and best adapted for spring planting.

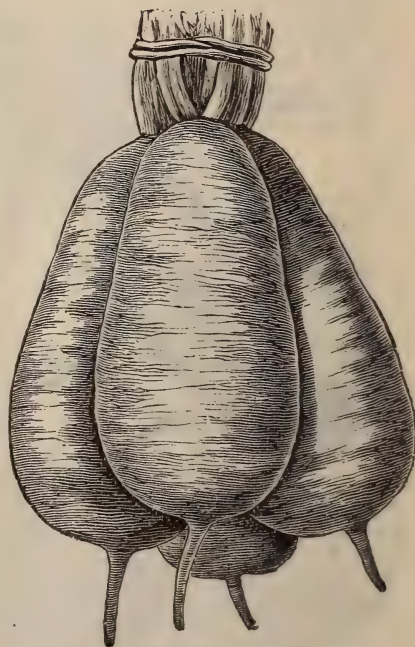
Robertson's Golden Ball. Is the best of the Yellow Turnips for table use. It is very smooth, oval in shape, and of a beautiful orange color. Leaves are small. Should be sown in the fall of the year, and always in drills, so that the plants can be thinned out and worked. This kind ought to be more cultivated.

Amber Globe. This is very similar to the above kind.

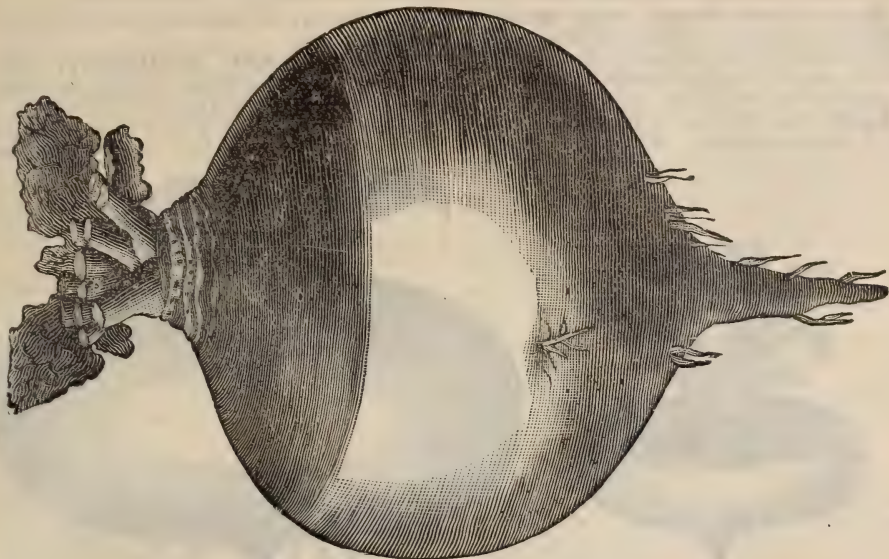
Large White Globe. A very large kind, mostly grown for stock. It can be used for the table when young. Flesh coarse, but sweet; tops very large.



Improved Purple Top Ruta Baga.



Extra Early White French, or White Egg Turnip.



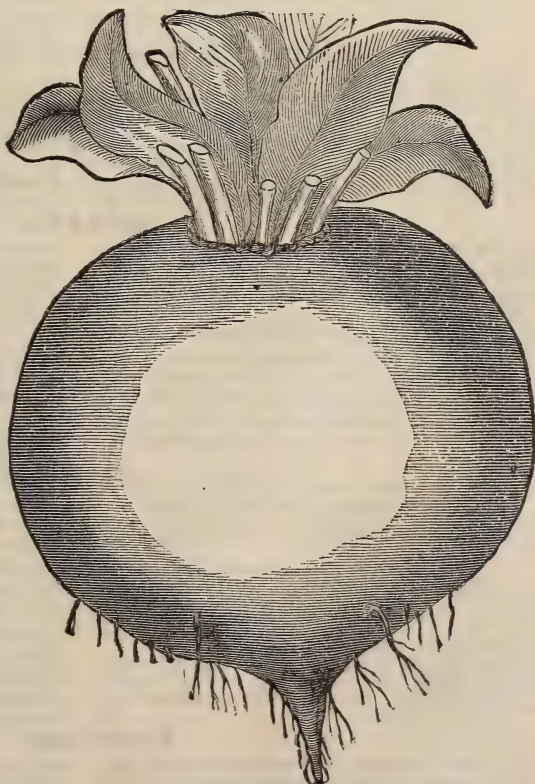
Purple Top Globe.

Pomeranian Globe. This is selected from the foregoing. It is smoother and handsomer in shape; good to plant early in spring. When pulled before it is too large, it is a very saleable turnip in the market.

Improved Purple Top Ruta Baga. This is grown for feeding stock and also for table use. It is oblong in shape, yellow flesh, very solid. Should always be sown in rows or ridges.

Long Island Purple Top Ruta Baga. This kind is purely of American origin. The root is smoother than the foregoing variety; the flesh is of golden yellow, fine grained and solid; it is earlier to mature. The stock we have is expressly grown for us on Long Island and cannot be surpassed. Can not be too highly recommended.

Extra Early White French, or White Egg Turnip. This is a lately introduced variety; is said to be very early, tender and crisp. The shape of it is oblong, resembling an egg. Having tried it we found it as represented, quickly growing, tender and sweet. It will never become a favorite market variety, as only flat kinds sell well in this market. It has to be pulled up soon, as it becomes pithy shortly after attaining maturity.



Pomeranian Globe.

Extra Early Purple Top Munich. Recently introduced from Germany; flat, with red or purple top; same as the American variety, but fifteen days earlier to mature. It is very hardy, tender, and of fine flavor.

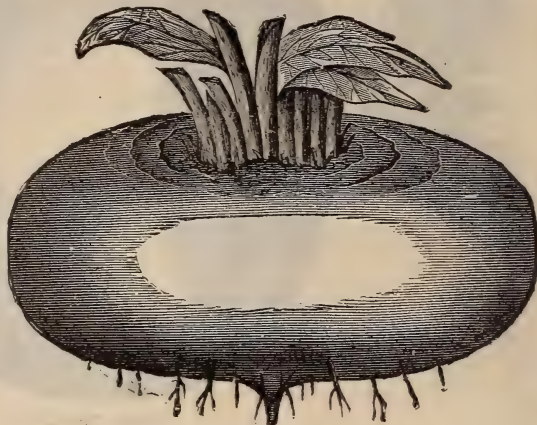
Large Cow Horn. A long white variety of very good quality, shaped like a cow's

horn, from which the name. It is good for feeding stock.

Sweet German, or Hanover Resembles the Ruta Baga in growth; it is a white flesh variety, very solid and sweet. If sown in the fall will keep well until spring without getting pithy like the flat varieties.



Munich Extra Early Purple Top.



Early White Flat Dutch (strap-leaved.)

Directions for Planting.

The directions given here are for Southern Louisiana. If applied to localities north of here the time of planting will not be quite as early in the Spring and earlier in the Fall. For instance, the directions given for January will answer for February in the northern part of this State and Mississippi and the southern part of Alabama. In autumn, directions for September can be followed in August. For the middle and southern part of Florida, sowing can be done much earlier in the Spring, and in the Fall much later than in Louisiana. In the northern part of Louisiana, Mississippi and Texas, as well as in the southern part of Alabama, very little can be planted in November and December.

JANUARY.

In this month Spinach, Mustard, Carrots, Beets, Turnips and Leeks may be sown, also early varieties of Radish, and for the last crop the Black Spanish, White California Mammoth and Chinese Rose.

Early varieties of Turnip and Ruta Baga for table use can be sown yet.

Sow Lettuce, Endive, Cabbage, Broccoli, Kohlrabi and early Cauliflower. As the weather is very unstable, it is best to sow in a frame and protect young plants during severe cold weather.

Cress, Chervil, Parsley and Celery, the latter for cutting, should be sown; also, Roquette and Sorrel.

If the hot-bed has not been prepared already during the previous month, it should be done at once, to sow now Eggplants, Pepper and Tomatoes; the latter can be sown a little later than the former.

All kinds of Herb seeds may be sown during this month.

Plant Peas for general crop, such as Black-Eyed and large White Marrowfat, Champion of England, Eugenie, Stratagem, Telephone and other varieties. Towards the end of this month the Extra Early varieties, like First and Best, Little Gem and Alaska may be planted.

Plant Potatoes. The Early Rose should not be planted before the latter part of this month. Peppercorn and other second early varieties may be planted after the first.

Divide and transplant Shallots, also set out Cabbage plants sown in November.

Onions, if not already transplanted, should be hurried now, so that they may have time to bulb. Those who desire to raise Onion sets, should sow the seeds towards the end of this month, as Onion sets which are set out early in the fall can be sold earlier than those raised from seed.

It is better to sow Onion seeds for sets in February, as they generally get too large if sown in this month. Northern seeds will not make any sets in our climate.

Asparagus roots should be set out this month; also Red Oats may be sown. We consider this and the German Millet, which ought to be sown in March, two of the best annual forage plants for Louisiana.

Cucumber seeds can be planted now for forcing. It is best to plant the seeds in flower pots first, and when the third leaf is developed, transplant into the hot bed.

Although Cucumbers for shipping are mostly planted in November and December, if the hot-bed is properly made, those planted in this month will bear better than those planted in November.

Fruit trees of all kinds, such as Pear, Plum, Peach, Apple and Orange, should be planted now.

Sow Pecans now. Continue to sow flower seeds during this month for Spring and early Summer blooming.

FEBRUARY.

All winter vegetables can be sown this month, such as Spinach, Mustard, Carrots, Beets, Parsnips and Leeks; also the early varieties of Radishes,

White Spring and Early Purple Top Turnip, Swiss Chard and Kohlrabi, Lettuce, Cabbage and Early Cauliflower may be sown. If the weather is favor-

able and the month of April dry, the latter will succeed well.

Cauliflower and Cabbage plants should be transplanted. Shallots divided and set out again; also sow Sorrel, Roquette, Chervil, Parsley, Cress and Celery for seasoning, if not sown already.

All varieties of Peas can be planted in this month, especially the early varieties. The later varieties are best planted in January, but if planted in the early part of February they will do well.

February is the best month to plant the general crop of Potatoes, as on an average they will succeed better if planted during this month than any other.

Sweet Herbs should be planted, the most tender varieties in a frame, and afterwards transplanted into the open ground.

This is the proper month to sow Asparagus seed, also to plant the roots of this vegetable, if not done so previously.

Hot-beds on account of the changeable weather during this month, require a good deal of attention. Give air when the sun shines and the weather is pleasant, otherwise plants will become spindly and long legged. If too thick thin them out so that they may become sturdy.

Sow Beets, Radishes and early varieties of Cabbage, Kohlrabi, Lettuce, Spinach, Mustard, Carrots, Swiss Chard and Leek; also Celery for cutting, Parsley, Roquette, Cress and Chervil. Towards the end of this month sow Endive.

Sow the Royal Cabbage Lettuce; also Drumhead and Perpignan. The White Paris Coss is a favorite variety for spring; the Butterhead will run into seed too quickly, and should not be sown later than the middle of February in this latitude.

Plant now all varieties of Bush and Pole Beans; but for Lima Beans it is better to wait until the end of this month, as they rot easily when the ground is not warm enough or too wet.

Squash, Cucumbers, Melons and Okra can be planted. The remark in regard to Lima Beans holds good also for Okra. Early varieties of Peas may still be planted; set out Tomatoes, Eggplants

In this month sow Bush, Pole and Lima Beans, Sweet Corn, Cucumbers, Squash, Melons and Okra. Beets, Carrots, Swiss Chard, Radishes, Lettuce, Mustard, Endive, Roquette, Cress, Parsley, Chervil and Celery for cutting.

Sow Tomatoes, Egg Plants and Peppers.

It is rather late to sow Cabbage seed now, but if sown, the early varieties may be successfully used. Kohlrabi can still be sown, but it is best to sow thinly in drills a foot apart, and thin out to four inches in the rows instead of transplanting. Towards the end of this month a sowing of the late Italian Cauliflower can be made, as it takes from eight to nine months to mature, and, therefore, should be sown early.

It is always best to make several sowings, so that in case one should fail, the other may be used.

The Italian Cauliflower is harder than the French and German varieties. A good plan is to sow the seed in boxes elevated two or three feet

During this month very few vegetables can be sown. Hardly any of the winter varieties if sown now will do well. The ground should be occupied by growing crops.

Where Potatoes and Onions were taken up, Corr, Melons, Cucumbers, Squash and Pumpkins may be planted.

No Cabbage excepting the Creole can be sown this month, as this is supposed to stand the heat better than other varieties, but it does not form a solid head and runs into seed as early as the end of November.

Yellow and White Summer Radishes and Endive may be sown.

During the hot weather Lettuce requires a good deal of water, as it will, if neglected, soon become hard and tasteless. In fact, it is combined with a

You may begin to plant Bush Beans as soon as the weather permits; also Cucumbers, Squash and Melons may be planted, as they often succeed if protected by small boxes covered with glass, as most gardeners do here; there is no risk at all.

At the end of this month Early Corn can be planted. For market use, Adams' Extra Early and Early White Flint are planted. We recommend the Sugar varieties for family use; but as they are more tender than the preceding, they should only be planted during this month if the weather is extremely favorable, otherwise it is better to wait until March. They are just as large as the above mentioned varieties, especially Stowell's Evergreen, which is as large as any grown. We consider it the best for family use.

Mangel Wurzel and Sugar Beets should be sown this month for stock food. Sweet potatoes may be put in a bed for sprouting, so as to have early slips.

Plant fruit trees of all kinds, especially Orange and Pecan trees. Pecans may be sown yet during this month to raise trees from.

Sow flower seed for late spring and early summer, such as Zinnia, Balsams in frame, Torenia, different varieties of Amaranthus, Gomphrenas, etc.

MARCH.

and Peppers in the open ground and sow seed for later crop. Plant Sweet Corn.

Potatoes may still be planted, but all depends upon the season. Some years they do as well as those planted during the previous month. In fact we have seen the finest crop raised from Potatoes which had been planted on the 15th of this month.

Beans are hard to keep in this climate, and therefore hardly any are planted at this time of the year for shelling purposes. Sweet Potatoes can be planted yet; also, fruit trees at the early part of this month, or even later if the season is somewhat retarded.

At the end of this month sow Sorghum, Kaffir Corn and Mello Maize for stock food, also Teosinte. Sow Lespedeza at the beginning of this month.

APRIL.

above the ground, as it will keep the Cabbage-fly off. The plants should be overlooked daily, and all green Cabbage-worms and other vermin removed.

Plant Sweet Potato slips for early crop, dig Irish Potatoes planted early, and after well preparing the ground, plant Corn, Beans, Squash, etc., in it.

Sow Cashaw and field Pumpkins.

German Millet should be sown this month. The ground ought to be well plowed and harrowed. Three pecks of seed is the quantity to be sown per acre. After sowing, roll the ground well and the seed will require no other covering. If no roller is handy, some brush tied together ought to be passed over the ground sown, and this will effectively cover the seed. For hay it should be cut when in flower.

Every planter should give this forage plant a trial.

MAY.

good deal of labor to raise good Lettuce during the summer months. The Perpignan is the best for summer use. Okra can still be sown.

Large White Solid Celery may be sown now, but must be well shaded, and if the weather is dry, should be regularly watered.

Late Italian Cauliflower may be sown.

Cow Peas can be planted now between the Corn; or the Crowders in rows, the latter is the best to be used green. If Cow Peas are sown for fertilizing purposes, one bushel per acre should be used and plowed under when the ground is well covered with vines, or sometimes they are left until fall, when they commence to decay, and then plowed down. It is best, however, to plow them down when they have the most foliage, that is whilst they are booming, as they then contain the most

fertilizing properties. We consider Cow Peas the cheapest and most beneficial fertilizer for worn out land.

Sweet Potato slips can be set out yet, taking advantage of an occasional rain; but if it does not rain they must be watered. As the top of Shallots gets dry, which indicates their being ripe, they are fit to be taken up.

The sowing during this month is similar to the preceding; that is, not a great deal can be sown. The growing crops will require attention as weeds grow fast now.

Corn may be planted for the last supply of roasting ears; also a few Water and Musk Melons. Cucumbers, Squash and Pumpkins planted during this month, generally do well; but if the weather is hot and dry, they require an abundance of water.

Southern Prolific Pole Beans are the best to plant yet this month, as they stand more heat than any other variety. Continue to set out Sweet Potato slips.

Sow Yellow and White Summer Radishes; Endive for salad, also Royal and Perpignan Lettuce.

To sow Lettuce during the summer months requires a great deal of attention; in fact, it requires more care than most people are willing to bestow.

Before sowing, soak the seeds for half an hour in water, take them out and put in a piece of cloth and place in a cool spot under the eistern, or it convenient in an ice box. Keep the cloth moist, and in two or three days the seeds will sprout. Then sow them. It is best to do so in the evening, and give a good watering.

If the seeds are sown without being sprouted,

Towards the end of this month plant Pole and Bush Beans. In the early part sow Tomatoes for the last crop; also, some Corn for roasting ears.

If the weather is favorable, Corn may be planted also for stock food. Cucumbers can be planted for pickling; also Early Giant Cauliflower, Endive, Lettuce, Yellow and White Summer Radishes.

In new ground some Turnips and Ruta Bagas can be sown, but it is better to wait until next month, as they are apt to become hard and stringy.

After the 15th of this month, Cabbage, such as Frotcher's Superior Late Flat Dutch, Improved Drumhead, Crescent City Flat Dutch, Stein's Early Flat Dutch, St. Denis or Chou Bonneau and Brunswick may be commenced with. The above are the leading kinds.

It is very hard in our climate to say which is the best time to sow, as our seasons differ so much.

Some seasons we have early frosts, other seasons not before January, and Cabbage is most easily hurt by frost when heading up. When the plants are small yet, or half grown, or when they are headed up, they are not so much affected by cold weather. It is therefore necessary to make two or three sowings at different times, so that in case some of the Cabbage is destroyed by frost, the other is coming on. As a general rule plants raised from seed sown in July and August give the best results, they are almost sure to head.

September, in our experience, is the most unfavorable month for sowing Cabbage; as generally plants raised from seed sown in September are ready to head when frost sets in, and therefore,

During this month gardeners in the South are very busy with sowing and planting. Bush Beans, Extra Early and Washington Peas can be planted; also continue to sow Late Cabbages, Drumhead Savoy, Broccoli, Brussels Sprouts and Kale. Sow Early Italian Cauliflower at the early part of this month. This is the proper time to sow the Half Early Paris and other varieties.

Sow Parsley, Roquette, Chervil, Lettuce, Endive and Sorrel; but if the weather should be very dry, these seeds have to be frequently watered. It is best to cover Parsley seed with moss or brush, until it begins to come up.

Pull them up and expose to the sun for a few days, and then store away in a dry, airy place, taking care not to lay them too thick, as they are liable to heat.

Lima or Pole Beans can be planted; the Southern Prolific is the best variety for late planting.

Sorghum can be planted yet, and as it resists considerable drought, will do fairly well.

JUNE.

ants will be likely to carry them away before they can germinate, and the seedsman be blamed for selling seeds that did not grow. This sprouting has to be done from May to September, or, if the weather is warm and dry in the latter month, up to the middle of October.

Should the weather be moist and cool in the fall, it can be dispensed with.

Some late Cabbage for winter crops may be sown in this month, as the plants are generally easier raised during this than the following months; but we consider this month too early for Cabbage seed, as the plants become too hard and long-legged before they can be transplanted.

Late Italian Giant Cauliflower may be sown yet in the early part of this month; towards the end Early Giant can be sown. Some cultivators transplant them, when large enough, at once from the seed-bed into the open ground; others plant them first into flower pots, and transplant into the ground later. However, if transplanted at this time of the year they will have to be shaded for a few days and watered until they have taken a good hold.

Sow Tomatoes for late crop towards the end of this month.

JULY.

more liable to be hurt. Still there are some exceptions. Some years ago, the seed sown in September turned out best, because we had no frost until very late in the season.

Brunswick is the earliest of the large growing varieties and should be sown in July and August, so that it may be headed up when cold weather sets in. It is more tender than the Flat Dutch and Drumhead. The same may be said in regard to the St. Denis and Improved Early Summer.

All Cabbages require a strong, good soil, but the Brunswick and Flat Dutch in particular.

The ground should be well fertilized, with either stable manure, cotton seed meal or superphosphate; but we consider Cow Peas planted on the Cabbage land and plowed under the best and cheapest fertilizer.

The standard varieties, Superior Flat Dutch and Improved Drumhead, should be sown at the end of this month and during the next.

A large quantity of seed must be sown at this time of the year, as it is sometimes very difficult to get a proper stand, and it is always better to have some plants left over than to be short.

It is a very difficult matter to protect the young Cabbage plants from the ravages of the insects, which are, especially after a mild winter, very plentiful.

Strong Tobacco water or Tobacco dust has been found very beneficial; also Tobacco stems, cut fine and scattered over the ground, will keep them off to some extent. Still sometimes even these remedies will fail.

AUGUST.

Yellow Turnip and White Strasburg Radish may be sown during this month, and towards the end commence to sow the red varieties, such as Scarlet Turnip, Half Long French and Long Scarlet, also Black Spanish.

Sow Swiss Chard, Mustard and Cress, all varieties of Turnip and Ruta Baga, and also Vienna Kohlrabi.

If not too hot and dry, Beets of all kinds may be put in the ground; but it is better to wait until the following month.

Carrots may be sown in the latter part, if the weather is favorable; but if hot and dry, it is use-

less to do much, as seeds cannot come up well without being watered.

White Solid, Dwarf Large Ribbed and Perfection Heartwell Celery should be sown now.

Set out Shallots. Red and White Kidney Beans for shelling should be planted at the early part of this month.

Mostly all the seeds recommended for last month can be sown this month, but some more should be added to them.

In the early part plant Bush Beans, as they will bear before frost sets in. Also plant early varieties of Peas, such as Extra Early, Early Alaska, Washington. All kinds of Radishes, Carrots, Beets, Parsnips, Salsify, Roquette, Chervil, Parsley, Sorrel, Cress, Lettuce, Endive, Leeks, Turnips, Kohlrabi, Broccoli, Early Cauliflower, Kale, Celery, Corn Salad and Mustard can be sown during this month.

Begin sowing Creole Onion seed after the 15th of this month. As this is one of the most important crops, it should not be neglected. Our planters and truck farmers in the neighborhood of our city make their first sowing by the 15th of this month. If the weather is hot and dry, it is necessary to cover the seed-beds with moss, after the seed has been sown; it will keep the seed moist and insure

This is the month when Artichokes should be dressed, the suckers or sprouts taken off and transplanted.

Onion seed can still be sown up to the 10th of this month; but it is better to get it in the ground as soon as possible, so that the plants get large enough before cold weather comes on.

Towards the end of this month, Black Eyed Marrowfat Peas and English Windsor Beans can be planted.

Sow Cabbage, Spinach, Cauliflower, Broccoli, Brussels Sprouts, Kale, Mustard, Swiss Chard, Carrots, Beets, Salsify, Leeks, Corn Salad, Parsley, Roquette, Chervil, Kohlrabi, Radishes, Lettuce, Endive and Parsnips.

Shallots set out previously may be divided and set out again.

Salsify, which does very well here, must in order to obtain the best results be sown now; it is generally sown too late. It requires a fine mellow

During this month continue to sow all varieties of winter vegetables as during the previous month.

Superior Large Late Flat Dutch and Improved Drumhead Cabbage sown in this month will make fine heads in the spring, also other late and second early varieties.

Artichokes should be dressed if not done already last month.

Sow Black Eye Marrowfat and other late varieties of Peas; they are not easily affected by frost as long as they are small, and during this time of the year they will not grow very fast. English Windsor Beans may be planted yet; they are hardy enough not to be hurt by frost.

Hot-beds should be gotten ready now for Cucumbers, manure for same should be looked after; it ought not to be over one month old.

Throw it together in a heap, and when heated fork it over again, so the long and short manure will be well mixed.

During this month not a great deal is planted, as the ground is generally occupied by growing crops.

Peas for general crop may be planted, some Potatoes could be risked; but on account of cold weather during January and February, it is very uncertain whether they will succeed or not.

Spinach, Roquette, Radishes, Carrots, Lettuce, Endive and some early Cabbage may be sown.

Sow early varieties of Cauliflower, such as Early Erfurt, Le Normand, Half Early and Extra Early Paris in a frame or a sheltered situation in the open ground to be transplanted in February. Of

Early Rose and other varieties of Potatoes saved from the spring crop, should be planted early this month for a winter crop; the smallest Potatoes are selected for that purpose and planted whole. Set out Tomato plants for a late crop, if not done so last month.

If Celery plants are set out during this month they require to be shaded.

SEPTEMBER.

its coming up. As soon as the young plants make their appearance, the moss must be taken off. For main crop the end of this month is the proper time.

Transplant Celery plants in ditches made for that purpose, and if the weather is favorable, set out Cabbage and Cauliflower plants.

If the weather is not too hot and dry, Spinach may be sown, but has to be well watered, otherwise it is impossible to get a stand.

Some Cabbage seed may be sown yet, but Cabbage sown in this month will generally not do as well as seed sown during the previous month.

Set out Shallots, divide and transplant Sorrel; sow Turnip-rooted Celery.

During this month Flower seeds, such as Pansies, Daisies, Sweet Alyssum, Candytuft, Stocks, Phlox, Chinese and Japan Pinks, Aster, etc., can be sown.

OCTOBER.

ground, which has been deeply spaded, as the size and smoothness of the roots depend upon the preparation of the soil.

Do not manure the beds fresh, but use such lands for Salsify as have been well manured in the spring. At the end of this month some of the Celery which has been planted early may be earthed up. Water it frequently with soap water.

Rye, Barley and Red Oats should be sown for stock food; also Orchard Grass, Red and White Clover and Alfalfa or Lucerne.

Transplant Strawberry plants; they have to be transplanted every year, as they cannot be left in the same place for several years, as is done North.

Michael's Early is the favorite variety for this market.

Continue to sow Flower seeds of all spring blooming varieties. Plant Hyacinth, Narcissus, Ranunculus, Anemones, Tulip and Lily bulbs.

NOVEMBER.

The first vegetables generally sown in hot-beds are Cucumbers; it is best to start them in two or three inch pots, and when they have two rough leaves, transplant them into their place; two good plants are sufficient under one sash.

Sow Flower seeds of all kinds in boxes and transplant when large enough into open ground.

Plant Hyacinths, Tulips, Narcissus and Jonquills in open ground or flower pots for forcing.

To force Hyacinths and other bulbous rooted plants in flower pots, use light but rich soil, plant in 5 inch pots, so that the top of the bulbs are covered about half an inch.

Give one good watering and bury the pots 6 inches under the ground, until the bulbs are well rooted, which takes from 4 to 5 weeks. When well rooted take the pots out of the ground and gradually expose to the light, when they will soon put out and bloom well.

DECEMBER.

Early Cabbage, sow Early and Large Early York Oxheart and Winningstad.

Sow Tomatoes for forcing in a cooled-off hot-bed, the best kinds for that purpose are the Extra Early Dwarf and the Dwarf Champion. The former is really a good acquisition; it is very productive and of good size, and bears the fruit in clusters.

The varieties will only sell for the first, as the fruit is not as large as the Livingston varieties, which come in later.

Prepare ground for Fruit trees during this month, and towards the end begin to plant some.

Sow Pecans to raise trees from.

Tobacco Seeds.

Imported Havana. We import from one of the principal growers the finest and purest strain of Vuelta Abajo, which is considered the best of the Havana varieties.

Price, 10 cents per package, 40 cents per oz., \$4.00 per lb.

Connecticut Seed Leaf. A well known American variety.

Price, 10 cents per package; 25 cents per oz.; \$2.50 per lb.

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Sweet and Medicinal Herbs.

Some of these herbs possess culinary as well as medicinal properties. Should be found in every garden. Ground where they are to be sown should be well prepared and pulverized. Some of them have very fine seed, and it is only necessary, after the seed is sown, to press the ground with the back of the spade; if covered too deeply they cannot come up. Early spring is the best time to sow them—some, such as Sage, Rosemary, Lavender and Basil, are best sown in a frame and afterwards transplanted into the garden.

Anise, *Pimpinelle Anisum*.

Balm, *Melisse Officinalis*.

Basil, large and small leaved. *Ocymum Basilicum*.

Bene, *Sesamum Orientale*.

Borage, *Borago Officinalis*.

Caraway, *Carum Carni*.

Dill, *Anethum Graveolens*.

Fennel, sweet, *Anethum Foeniculum*.

Lavender, *Lavandula Vera*.

Marjoram, sweet, *Origanum Majorum*.

Pot Marigold, *Calendula Officinalis*.

Rosemary, *Rosemary Officinalis*.

Rue, *Ruta Graveolens*.

Sage, *Salvia Officinalis*.

Summer Savory, *Satureja Hortensis*.

Thyme, *Thymus Vulgaris*.

Wormwood, *Artemisia Absinthium*.

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GRASS AND FIELD SEEDS.

We have often been asked what kind of Grass Seed is the best for this latitude, but so far we have never been able to answer this question satisfactorily. For hay we do not think there is anything better than the Millet. For permanent grass we have almost come to the conclusion that none of the grasses used for this purpose North and West will answer. Barley, Rye, Red Oats and Rescue Grass will make winter pasturage in this latitude. Different kinds of Clover answer very well during spring, but during the hot summer months we have never found anything to stand and produce except the Bermuda and Crabgrass, which are indigenous to the South.

Of late years the Lespedeza Striata, or Japan Clover, has been sown extensively, a description of which will be found on page 89.

The Bermuda, in our opinion, is better suited for pasturage than hay, as it is rather short and hard when cured. Having tried Guinea Grass we have come to the conclusion that it will not answer here, from the fact that it will freeze out every year. It will produce a large quantity of hay or green fodder, but has to be resown every spring. The seeds that are raised here are light, and do not germinate freely. To import seed every year is rather troublesome. The Johnson Grass advertised by some as Guinea Grass, is not Guinea Grass; it is much coarser, and can hardly be destroyed after having taken hold of a piece of ground. Some are enthusiastic about Alfalfa or Lucerne; others, whose opinion ought also to be respected, say it will not do here. There exists a great difference of opinion in regard to which grass seed is the most suitable for the South.

Red Clover. Should be sown either during fall or early in spring. Six to eight pounds to an acre.

White Dutch Clover. A grass sown for pasturage at the rate of four to six pounds to the acre. Should be sown in fall and early spring.

Alfalfa or Chili Clover, or French Lucerne. This variety does well here, but

the ground has to be well prepared and deeply plowed. It will not do in low wet ground. Should be sown in the fall of the year, or January and February; eight to ten pounds per acre. It is stated that it does much better in heavy than in sandy soil.

This being of special value we refer to the letter written by E. M. Hudson on the subject, see page 90.



Red Clover.



Meadow Fescue Grass.



White Dutch Clover.

Crimson Clover. (*Trifolium incarnatum*.) Crimson Clover, an annual variety, which is a native of a warm climate, has not been grown here as extensively as it deserves to be.

It has been highly praised up as a forage plant, said to be equally as good for pasturage as well as for mowing and to do better in poor worn out soil than any other variety.



Alfalfa or Lucerne Clover.

It certainly has attracted a great deal of attention in the South during the past three or four years, and the Experiment Stations of Louisiana and other Southern States speak highly of it, but its true merits are still in doubt.

Crimson Clover has been grown for years in the South of France and Germany, with what success is not known, but it is claimed that owing to its quick growth it is preferable to other varieties.

As a forage plant it may be mowed twice and then plowed under, thereby acting as a fertilizer and renovating the exhausted soil.

In the Southern States Crimson Clover should be sown in the months of October and November. However, it may be sown with good results as late as January or February and will produce a fine crop. The demand for this variety of Clover has increased considerably since a few years. From 8 to 10 pounds should be sown per acre.

Kentucky Blue Grass. (EXTRA CLEANED.) Should be sown in dry soil. Two bushels per acre. See page 86.

Meadow Fescue. *Festuca Pratensis*. As a pasture grass we consider this one of the most valuable. It is not affected by dry weather, as its roots penetrate the earth 12 to 15 inches; it is much relished by all kinds of stock on account of its long and tender leaves. It yields a very superior hay when cured. It is deserving of much more attention. Sow in spring or fall. Two bushels to the acre. In some sections it is called Randall Grass. This should not be confounded with the English Rye Grass, offered by some dealers as the same variety.

Orchard Grass. This is one of the best grasses for pasturing. It grows quickly, much more so than the Blue Grass. Can be sown either in fall or spring. Sow one to

one and a half bushels per acre. (See extract from "Farmers' Book of Grasses.")

Rescue Grass. A forage plant from Australia. It grows during winter. Sow the seed in the fall of the year, but not before the weather gets cool, as it will not sprout so long as the ground is warm. Sow $1\frac{1}{2}$ bushels seed to the acre.

German Millet. Of all the Millets this is the best. It makes good hay, and produces heavily. Three pecks sown to the acre broad-cast secures a good stand. Can be sown from April till June, but the former month is the best time. Should be cut when in bloom.

Rye. Is sown during the fall months as late as December, for forage; and for pasturage, during winter and spring. See page 87.

Barley. Can be sown fall and winter, but requires strong, good soil. Used here for forage during its green state.

Texas Red Rust Proof Oats. It is only a few years since these Oats have come into general cultivation. They are very

valuable, and will save a great deal of corn on a farm. The seed of this variety has a redish cast, a peculiar long beard, and is very heavy. It is the only kind which will not rust in the Southern climate. They can be sown as early as October, but should be pastured down as soon as they commence to joint, till February. When the ground is low, or the season wet, this cannot well be done without destroying the whole crop. During January and February is the proper time, if no pasturing can be done. One to one and a half bushels per acre is sufficient. These Oats have a tendency to stool, and therefore do not require as much per acre as common oats. Those who have not already tried this variety should do so.

Early Winter Turf Oats. Since a few years a new oats has come into notice. It is claimed that they stool more than any other variety; can be pastured the whole winter, and are as hardy as Wheat. Claimed to produce more and heavier grain than other varieties. If they do not rust they are an acquisition.

The following extracts have been taken by permission from the author, Dr. D. L. Phares, from his book, "Farmers' Book of Grasses." It is the most valuable work of the kind ever published in the South, and should be in the hands of every one who takes an interest in the cultivation of grasses.

Copies for sale at publisher's price. Paper covers, 25 cents; Cloth, 35 cents; postage paid.

RED TOP GRASS.

Agrostis Vulgaris.

This is the best grass of England, the herd grass of the United States; not in honor of any man, but probably, because so well adapted to the herd. It is called also Fine top, Burden's and Borden's Grass. Varying greatly in character, according to soil, location, climate and culture; some botanists have styled it *A Polymorpha*. It grows two to three feet high, and can be mown when four feet high. It grows well on hill tops and sides, in ditches, gullies and marshes, but delights in moist bottom land. It is not injured by overflows, though somewhat prolonged. In marshy land it produces a very dense, strong net-work of roots capable of sustaining the weight of men and animals walking over it.

It furnishes considerable grazing during warm "spells" in winter, and in spring and summer an abundant supply of nutrition. It has a tendency, being very hardy, to increase in density of growth and extent of surface, and will continue indefinitely, though easily subdued by the plow.

Cut before maturing seeds, it makes a good hay and large quantity. It seems to grow taller in the Southern States than it does further North, and to make more



Red Top Grass.

and better hay and grazing. Red Top and Timothy being adapted to the same soil and maturing at the same time, do well together and produce an excellent hay. But the Red Top will finally root out Timothy, and if pastured much will do so sooner.

Sow about two bushels (28 lbs.), per acre, if alone, in September, October, February or March; if with Timothy for hay, from 6 to 10 pounds, if with other grasses for pasture, 3 to 5 pounds. It is an excellent pasture grass, and will grow on almost any kind of soil.

KENTUCKY BLUE GRASS.

Poa Pratensis.



Kentucky Blue Grass.

This is also called smooth meadow grass, spear grass, and green grass, all three very appropriate, characteristic names. But Blue is a misnomer for this grass. It is not blue, but green as grass, and the greenest of grasses. The *P. Compressa*, flat stalked meadow grass, wire grass, blue grass is blue, 'the true blue' grass from which the genus received its trivial name.

Kentucky blue grass, known also in the Eastern States as June grass, although esteemed in some parts of America as the best of all pasture grasses, seems not to be considered very valuable among English farmers except in mixtures. It is certainly a very desirable pasture grass however. Its very narrow leaves, two or more feet long, are in such profusion and cover the ground to such depth with their luxuriant growth, that a mere description could give no one an adequate idea of its beauty, quantity and value; that is on rich land. On poor, sandy land, it degenerates sadly, as do other things uncongenially located.

Perennial, and bearing cold and drought well, it furnishes grazing a large part of the year. It is specially valued as a winter and spring grass for the South. To secure the best winter results, it should be allowed a good growth in early fall, so that the end of the leaves, being killed by the frost, afford an ample covering for the under-part which continue to grow all winter, and afford a good bite whenever required by sheep, cattle, hogs and horses. In prolonged summer drought it dries completely, so that, if fired, it would burn off clean. But this occurs in Kentucky, where indeed it has seemed without fire, to disappear utterly; yet, when rain came, the bright green spears promptly recarpeted the earth.

With its underground stems and many roots it sustains the heat and drought of the Southern States as well as that of Kentucky, where indeed it is subjected to severer trials of this kind than in the more Southern States. In fact, it bears the vicissitudes of our climate about as well as Bermuda grass, and is nearly as nutritious.

Blue grass grows well on hill tops, or bottom land, if not too wet and too poor. It may be sown any time from September to April, preferable perhaps in the latter half of February, or early in March. The best catch we ever had was sown the 20th of March, on unbroken land, from which trash, leaves etc., had just been burned. The surface of the land should be cleaned of trash of all kinds, smooth, even; and if recently plowed and harrowed, it should be rolled also. The last proceeding is for compacting the surface in order to prevent the seed from sinking too deep in the ground. Without harrowing or brushing in, many of them get in too deep to come up, even when the surface of the land has had the roller over it. The first rain after seeding will put them in deep enough, as the seeds are very minute, and the spears of grass small as fine needles, and therefore unable to get out from under heavy cover. These spears are so small as to be invisible, except to close examination; and in higher latitudes this condition continues through the first year. Thus, some who have sown the blue grass seed, seeing the first year no grass, imagine they have been cheated, plant some other crop, and probably lose what close inspection would have shown to be a good catch. This, however, is not apt to occur in the Southern tier of States, as the growth here is more rapid. The sowing mentioned above made on the 20th of March, came up promptly, and in three months the grass was from six to ten inches high. One year here gives a finer growth and show than two in Kentucky, or any other State so far North.

Sown alone, 20 to 26 pounds, that is two bushels should be used; in mixtures, 4 to 6 pounds.

ORCHARD GRASS.*Dactylis Glomerata.*

Of all the grasses this is one of the most widely diffused, growing in Africa, Asia and every country in Europe and all our States. It is more highly esteemed and commended than any other grass by a large number of farmers in most countries—a most decided proof of its great value and wonderful adaptation to many soils, climates and treatments. Yet, strange to say, though growing in England for many centuries it was not appreciated in that country till carried there from Virginia in 1764. But, as in the case of Timothy, soon after its introduction from America, it came into high favor among farmers, and still retains its hold on their estimation as a grazing and hay crop.

Nor is this strange when its many advantages and points of excellence are considered. It will grow well on any soil containing sufficient clay and not holding too much water. If the land be too tenacious, drainage will remedy the soil; if worn out, a top dressing of stable manure will give it a good send-off, and it will furnish several good mowings the first year. It grows well between 29° and 48° latitude. It may be mowed from two to four times a year, according to the latitude, season and treatment; yielding from one to three tons of excellent hay per acre on poor to medium land. In grazing and as hay, most animals select it in preference among mixtures in other grasses. In lower latitudes it furnishes good winter grazing, as well as for spring, summer and fall. After grazing, or mowing, few grasses grow so rapidly (three to six inches per week), and are so soon ready again for tooth or blade. It is easily cured and handled. It is readily seeded and catches with certainty. Its long, deeply penetrating fibrous roots enable it to sustain itself and grow vigorously during droughts that dry up other grasses, except tall oat grass, which has similar roots and characteristics. It grows well in open lands and in forests of large trees, the underbush being all cleared off. I have had it grown luxuriantly even in beech woods, where the roots are superficial, in the crotches of roots and close to the trunks of trees. The hay is of high quality, and the young grass contains a larger per centage of nutritive digestible matter than any other grass. It thrives well without any renewal on the same ground for thirty-five, nay forty years; how much longer, we are not able to say. It is easily exterminated when the land is required for other crops. Is there any other grass for which so much can be said?



Orchard Grass.



English Rye Grass.

ENGLISH, or PERENNIAL RYE GRASS.*Lolium Perenne.*

This is the first grass cultivated in England over two centuries ago, and at a still more remote period in France. It was long more widely known and cultivated than any other grass; became adapted to a great variety of soils and conditions, and a vast number (seventy or more) of varieties produced, some of which were greatly improved while others were inferior and

became annuals. Introduced into the United States in the first quarter of the current century it has never become very popular, although shown by the subjoined analysis of Way not to be deficient in nutritive matter. In 100 parts of the dried grass cut in bloom were albuminoids 11.85, fatty matter 3.17, heat-producing principles 42.24, wood fibre 35.20, ash 7.54. The more recent analysis of Wolff and Knopp, allowing for water, gives rather more nutritive matter than this.

It grows rapidly, and yields heavy crops of seed, makes good grazing, and good hay. But, as with all the Rye Grasses, to make good hay, it must be cut before passing the blossom stage, as after that it deteriorates rapidly. The roots being short, it does not bear drought well, and exhausts the soil, dying out in a few years. In these respects it is liable to the same objection as Timothy. The stem, one to two feet high, has four to six purplish joints and as many dark green leaves; the flexuous spiked panicle bearing the distinct spikellets one in each bend.

It should be sown in August or September, at the rate of twenty-five or thirty pounds, or one bushel seed per acre.

TALL MEADOW OAT GRASS.

Arrhenatherum Avenaceum.

Evergreen grass in Virginia and other Southern States, and it is the Tall Oat (*Avena elatior*) of Linæus. It is closely related to the common oat, and has a beautiful open panicle leaning slightly to one side. "Spikelets two flowered, and a rudiment of a third, open; lowest flower staminate or sterile, with a long bent awn below the middle of the back."—Flint.

It is widely naturalized and well adapted to a great variety of soils. On sandy or gravelly soils, it succeeds admirably, growing two or three feet high. On rich, dry upland it grows from five to seven feet high. It has an abundance of perennial, long fibrous roots, penetrating deeply in the soil, being, therefore, less affected by drought or cold, and enabled to yield a large quantity of foliage, winter and summer. These advantages render it one of the very best grasses for the South, both for grazing (being evergreen) and for hay, admitting of being cut twice a year. It is probably the best winter grass that can be obtained.

It will make twice as much hay as Timothy, and containing a greater quantity of albuminoids and less of heat-producing principles, it is better adapted to the uses of the Southern farmer, while it exhausts the surface soil less, and may be grazed indefinitely, except after mowing. To make good hay it must be cut the instant it blooms, and after being cut must

not get wet by dew or rain, which damages it greatly in quality and appearance.

For green soiling, it may be cut four or five times with favorable seasons. In from six to ten days after blooming the seeds begin to ripen and fall; the upper ones first. It is, therefore, a little troublesome to save the seed. As soon as those at the top of the panicle ripen sufficiently to begin to drop, the heads should be cut off and dried, when the seeds will all thresh out readily and be matured. After the seeds are ripe and taken off, the long abundant leaves and stems are still green, and being mowed make good hay.

It may be sown in March or April, and mowed the same season; but for heavier yield it is better to sow in September or October. Along the more Southern belt, from the 31° parallel southward, it may be sown in November and onward till the middle of December. Whenever sown it is one of the most certain grasses to have a good catch. Not less than two bushels (28 pounds) per acre should be sown. Like Timothy on inhospitable soils, the roots may sometimes become bulbous. The average annual nutrition yielded by this grass in the Southern belt is probably twice as great as in Pennsylvania and other Northern States.

BERMUDA GRASS.

Cynodon dactylon.

Almost everybody living in this section of the country knows this grass; it is planted as a Lawn grass, and nothing will stand the sun better; or will make a prettier carpet, when kept short, than this grass. It is also very valuable as a pasture and hay grass. It is only lately that we have been able to obtain the seed of this grass, which heretofore had to be propagated by the roots. Six pounds will sow an acre. Should be planted in the spring, but can also be sown later. Under the most favorable circumstances it takes from 20 to 25 days to sprout; requires damp weather and hot sun; but when once up it grows very rapidly.



Tall Meadow Oat Grass.



Rescue Grass.

RESCUE GRASS.*Ceratochloa australis or Bromus Shraderei.*

It is an annual winter grass. It varies in the time of starting growth. We have seen it ready for mowing the first of October, and furnish frequent cuttings till April. Again, it may not start before January, nor be ready to cut till February. This depends upon the moisture and depression of temperature. When once started, its growth, after the successive cuttings or grazings, is very rapid. It is tender, very sweet, and stock eat it greedily. It makes also a good hay. It produces an immense quantity of leaves. On loose soil some of it may be pulled out by animals grazing it. We have seen it bloom as early as November when the season has favored it, and no grazing or cutting were permitted. Oftener it makes little start before January. But whether late or early starting, it may be grazed or mowed frequently, until April, it still will mature seed. It has become naturalized in limited portions of

Texas, Louisiana, Mississippi, Alabama and perhaps other States. It is a very pretty grass in all its stages; and especially so when the culms, two or three feet high, are gracefully bending the weight of the diffuse panicle with its many pedicelled flattened spikelets, each an inch or more long and with twelve to sixteen flowers.

We would not, however, advise sowing this grass on poor land with the expectation of getting a remunerative return. It tillers abundantly under favorable conditions.

JAPAN CLOVER.*Lespedeza Striata.*

There is now so much inquiry about this plant, so much confusion, lack of knowledge and confounding with or mistaking for it another worthless species, and also the same errors in regard to a small genuine clover, that it is deemed proper to give some correct information on the subject.

HISTORY.

To botanists this plant has been known for many generations in its native habit in China and other eastern parts of Asia. Finding its way to Japan it encountered congenial climate and soil, and rapidly spread over the entire country occupying all waste places, which it has continued to possess and improve for much more than a century. Here as on the continent it was of dwarfish habit and received a name indicative of the fact.

Finally, a few seeds, arriving in the United States, germinated, contested a few feet of soil with other native and exotic plants that had long pre-occupied the land.

It gained strength and increased in yield of seed till becoming somewhat abundant, it commenced its westward invasion, simultaneously extending its conquests northward and southward, firmly holding all conquered territory. Since 1870 its strides westward have been immense. It now extends from the Atlantic seaboard across the Mississippi, and its outposts are pushed far towards the western border of Texas.

Denuded, soilless hill tops, sandy plains, gravelly slopes, bottoms and banks of washes and gullies, pine thickets, open woods, fields, dry and damp soils, all seems as if specially created for its home. It seizes upon all with equal facility.

It maintains its dwarfish habits on sands, gravels and other spots too poor to produce any other vegetation, densely covering the surface with its green robe and affording delighted live stock with delicious nutritious grazing for four to eight months of the year. But on richer soil it dons the dwarf and dons the tree-style, justifying the American name of "bush clover," sending its long tap roots deep down in the subsoil and its stem two to three feet up into the light and air, with its many branches thickly set with leaves, inviting tooth and blade.

It attains here on rich or medium soil, protected from live stock, a magnitude that could not have been imagined by our seeing it in its far eastern home. It takes possession not only of unoccupied

land and pine thickets, but grows among sedges' grasses, briars and weeds, completely eradicating many species of noxious grasses and weeds. It subdues even broom grass and holds equal contest with Bermuda grass; in some localities one yielding, in other spots both maintain equal possession; or one year one may seem to rule, and the next year the other.

VALUE.

On sands, gravels, or denuded clay hill tops no other plant known to me is so valuable for grazing. Taking a succession of ten years, the same assertion would not be far out of the way for rich lands while few forage plants on these would yield so much or so valuable hay.

The analysis of red clover gives 16 per cent. albuminoids and 41 carbohydrates. The average of two analysis of Japan clover gives 15.85 albuminoids and 56 carbohydrates, placing it above red clover in nutritive value. It is

SUPERIOR TO OTHER FORAGE PLANTS

in several important particulars not generally observed by the careless stockman. 1. The growing plant contains less moisture than any other very valuable forage plant with perhaps a single exception. Hence we never hear of animals having hoven or bloat or scours from eating this plant as when they have free access to red clover, peas and many grasses. 2. We have never yet found on the Japan Clover any fungus growths which are so common on other plants as to cause many deaths annually among animals grazing on them or fed with the hay. 3. Heavy grazing for a few weeks destroys the clovers, lucerne and most of the grasses, while this plant may be grazed however closely, whether the season be wet or prolonged drought prevails, without damage. 4. There is less difficulty of obtaining a catch with this plant than most others. The seed may be scattered on bare, poor, barren ground, rich soil, among weeds and dead grass, or in March on small grain sown the previous autumn or winter,

and a catch will be obtained. 5. The grain being harvested when ripe does not injure the *Lespedeza*, which is ready for the mower through September and October. 6. It is more easily cured than the clovers, pea vines and many grasses. 7. It does not lose the foliage in curing as do clovers, peas and some other plants. 8. It furnishes good grazing from May, some years last of March till killed by frost in October or November.

PRODUCT OF HAY.

On medium to good land it ranges from one to three tons per acre; and this may be obtained after having during the summer harvested from the same land a good crop of grain and straw.

QUALITY.

Some of our farmers who have been mowing *Lespedeza striata* for five or ten years, regard it as the soundest, best, most wholesome and palatable hay they ever used. These mowings have ranged from two to three hundred tons on a single farm in one season. Yet no complaint as to quality, or relish of animals for it, or as to its nutritive value and good effect on the stock has ever reached us. Those who have used it longest and in largest quantities and kept animals—cattle, sheep, horses and mules—in best condition, commend it most. We have now before us a beautiful sample of perhaps 300 tons mowed last autumn.

SEEDING.

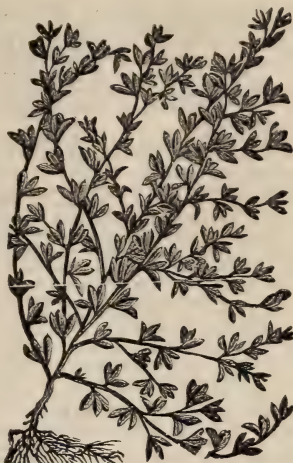
A measured half bushel of seed per acre may be sown broadcast the first week in March south of parallel 32° of latitude, a few days later as we proceed northward for each degree or two. Sown in the Fall or Winter it springs up, but freezes often throw it out and destroy it. As already stated, it germinates and grows well on land in any condition, if the surface is not so loose as to let the seed sink too deep. When land has been prepared for or sown in grain, the winter rains put it in about the best condition for growing this plant for heavy crops of hay.

All our remarks on this plant, as found in our Southern States, are based on what we have seen and learned of it in a belt lying between 32½° and 34° of latitude.

The only

COMPLETE PROOF

of the value of a forage plant is found in the concurrence of chemical analysis and the observation and experience of the stockman. When the relish of an animal for the forage is keen, the health preserved and improved, growth promoted a maximum quantity of excellent beef, or mutton, or pork, and if superior milk and butter are obtained, we certainly have an admirable food plant. The judgment of the cow, the convictions of the farmer arising from his experiences independent of,



Japan Clover.

and indeed in utter ignorance of any chemical analysis, confirming the decisions of the chemist, gives us the best of all evidences of the value of forage. And all these we have in this case. Japan clover is also a great

AMELIORATOR AND FERTILIZER.

Its abundant long tap-roots decaying render the soil porous and leave in it much nitrogenous material and humus. It releases and brings up from the subsoil valuable plant food; the ashes containing nearly 40 per cent. potash, 29.0 oxide lime, 7.82 sulphuric acid, 7.54 phosphoric acid—all most valuable elements in plant life and growth. Soils are thus renovated, slopes prevented from washing, gullies filled, moisture solicited and retained, atmospheric fertilizers gathered and garnered; bald, barren wastes covered with living green to fill the stomach, delight the eye and cheer the heart.

It should have been stated that this plant has eradicated over large areas the much detested helenium or bitter weed, which so often damages the flavor of the milk of cows eating it while grazing. It is believed that it exterminates also two or three plants that are fatally poisonous to cattle and horses.

For price, see price list.

BURR CLOVER.

Medicago Maculata.

This variety of Clover was brought from Chili to California and thence to the States under the name of California Clover. It is often taken for Lucerne, which name is wrongly applied. The Burr Clover has only two or three yellow blossoms in each cluster, while the Lucerne has many blue blossoms in an elongated head. It furnishes good grazing from February till April or May. It is good for grazing and hay. As there is no way of removing the seeds from the pods of Spotted Medick, it is necessary to sow the burr like pods, say one half bushel per acre. The planting should be done early in the Fall, so the pods may have time to rot and release the seed. Should be covered very lightly.

LETTER ON "ALFALFA."

The following letter was written by Mr. E. M. Hudson as his own practical experience, to Mr. R. Frotscher, to afford information on the subject:

MR. R. FROTSCHER, New Orleans, La.

VILLA FRIEDHEIM,
Mobile County, Ala., Sept. 7, 1878.

Dear Sir—Your letter of the 3d inst. has just reached me, and I cheerfully comply with your request to give you the results of my experience with Lucerne or Alfalfa, and my opinion of it as a forage plant for the South.

I preface my statement with the observation that my experiments have been conducted on a naturally poor, piney woods soil (which would be classed as a sandy soil, varying in depth from six inches to one foot.) But I have good red clay subsoil, which enables the soil to retain the fertilizers applied to it, thus rendering it susceptible of permanent enriching.

Three years since, when my attention was first directed to Alfalfa, I sought the advice of the editor of the *Journal of Progress*. Professor Stelle, who informed me that, after attempting for several years to cultivate it, he had desisted. He stated that the plant, at Citronelle, in this country, died out every summer, not being able to withstand the hot suns of our climate. Discouraged, but not dismayed, I determined to test the matter on a small scale at first. Having procured some seeds in March, 1876, I planted them on a border in my garden and gave neither manure nor work that season. The early summer here that year was very dry; there was no rain whatever from the first of June to the 23d of July, and from the 2d of August to the 15th of November not a drop of rain fell on my place. Yet, during all this time, my Alfalfa remained fresh, bloomed, and was cut two or three times. On the first of November I dug some of it to examine the habit of root growth, and to my astonishment found it necessary to go twenty-two inches below the surface to reach anything like the end of the tap roots. At once it was apparent that the plant was, by its very habit of growth, adapted to hot and dry climates. It is indeed a "child of the sun."

Encouraged by this experiment, in which I purposely refrained from giving the Alfalfa any care beyond cutting it occasionally, last year I proceeded on a larger scale, planting both spring and fall, as I have done again this year, to ascertain the best season for putting in the seed. My experience teaches that there is no preference to be given to spring sowings over those of autumn, provided only, there be enough moisture in the soil to make the seed germinate, which they do more quickly and more surely than the best turnips. Two winters have proved to me that Alfalfa remains green throughout the winter in this latitude, twenty-five miles north of Mobile, and at an altitude of 400 feet above tide water. Therefore I should prefer fall sowing, which will give the first cutting from the 1st of March to the 1st of April following. This season my first cutting was made on the 1st of April; and I have cut it since regularly every four or six weeks, according to the weather, to cure for hay. Meanwhile a portion has been cut almost daily for feeding green, or soiling. Used in the latter way (for under no circumstances must it ever be pastured). I am able to give my stock fresh, green food, fully four weeks before the native wild grasses commence to put out. I deem it best to cut the day before what is fed green, in order to let it become thoroughly wilted before using. After a large number of experiments with horses, mules, cattle and swine, I can aver that in no instance, from March to November, have I found a case when any of these animals would not give the preference to Alfalfa over every kind of grass (also soiled) known in this region. And while Alfalfa makes a sweet and nutritious hay eagerly eaten by all kinds of stock, it is as a forage plant for soiling, which is available for at least nine months in the year, that I esteem it so highly. The hay is easily cured, it that which is cut in the forenoon is thrown into small cocks at noon, then spread out after the dew is off next morning, sunned for an hour and at once hauled into the barn. By this method the leaves do not fall off, which is sure to be the case if the Alfalfa is exposed to a day or two of hot sunshine.

It has been my habit to precede the Alfalfa with a clean crop—usually Ruta Bagas—after which I sow clay peas, to be turned in about the last of

July. About the middle of September or later I have the land plowed, the turn-plow being followed by a deep subsoil plow or scooter. After this the land is fertilized and harrowed until it is thoroughly pulverized and all lumps broken up. The fertilizers employed by me are 50 pounds fine bone dust (phosphate of lime) and 100 lbs. cotton seed hull ashes per acre. These ashes are very rich in potash and phosphates, containing nearly 45 per cent of the phosphate of lime—the two articles best adapted to the wants of this plant. I sow all my Alfalfa with the Matthews' Seed Drill, in rows 10 inches apart. Broadcast would be preferable if the land was perfectly free from grass and weeds, but it takes several years of clean culture to put the land in this condition; sowing in drills is practically the best. No seed sower known to me can be compared with the Matthews' Seed Drill. Its work is evenly and regularly done, and with a rapidity that is astonishing, for it opens the drill to any desired depth, drops the seed, covers and rolls them, and marks the line for the next drill at one operation. It is simple and durable in its structure, and is the greatest labor-saving machine of its kind ever devised for hand work.

When my Alfalfa is about three inches high, I work it with the Matthews' Hand Cultivator. First, the front tooth of the cultivator is taken out, by which means the row is straddled and all the grass cut out close to the plant; then the front tooth being replaced, the cultivator is passed between the rows completely cleaning the middles of all foul growth. As often as required to keep down grass, until the Alfalfa is large enough to cut, the Matthews Hand Cultivator is passed between the rows.

Alfalfa requires three years to reach perfection, but even the first year the yield is larger than most forage plants, and after the second it is enormous. The land must, however, be made rich at first; a top dressing every three years is all that will thereafter be required. The seed must be very lightly covered, and should be rolled or brushed in, if not sowed with Matthews' Seed Sower.

Whenever the plant is in bloom it must be cut, for if the seed be left to mature, the stems become hard and woody. Also, whenever it turns yellow, no matter at what age, it must be cut or mowed, for the yellow color shows the presence of some disease or the work of some insect, both of which seem to be remedied by mowing promptly. My experience leads me to the conclusion that fully five tons of cured hay per acre may be counted on if proper attention be given to deep plowing, subsoiling, fertilizing and cleanliness of the soil. These things are indispensable, and without them no one need attempt to cultivate Alfalfa.

In conclusion, I will remark that I have tried the Lucerne seed imported by you from France, side by side with the Alfalfa seed sent me by Trumbull & Co., of San Francisco, and I cannot see the slightest difference in appearance, character, quantity or quality of yield or hardness. They are identical; both have germinated equally well, that is to say, perfectly.

In closing I cannot do better than refer you to the little treatise of Mr. C. W. Howard, entitled: "A Manual of the Grasses and Forage Plants of the South." Mr. Howard, among the very first to cultivate Lucerne in the South, gives it the preference over all other forage plants whatever. My experience confirms all that Mr. Howard claims for it. Certainly a plant that lasts a generation is worthy of the bestowal of some time, patience and money to realize what a treasure they can secure for themselves. I confidently believe that in years from this date the Alfalfa will be generally cultivated throughout the entire South.

I am respectfully yours,

E. M. HUDSON,
Counsellor at Law,
New Orleans.

The following extract is taken from *Farmer's Bulletin No. 31*, issued by the United States Department of Agriculture, prepared by Jared G. Smith, Assistant Agrostologist. After describing Alfalfa in growth, cultivation, value as a crop, etc., the following summary is given:

SUMMARY.

Alfalfa seed weighs 60 pounds to the bushel.

For a hay crop, sow 20 to 30 pounds of seed per acre.

For a crop of seed, sow 14 to 18 pounds per acre. Sow clean seed.

North of the latitude of Washington, sow Alfalfa in the spring, as soon as the ground is warm—from the middle of April to the middle of May. Sow in drills or broadcast.

In the South and Southwest and in California sow Alfalfa in spring or autumn. Sow in drills. In the South, sow in drills 16 to 20 inches apart, and cultivate the first season.

Do not cover the seed too deep.

Alfalfa does not attain maturity until the third or fourth year, therefore, do not sow it expecting to get best results in less than that time.

Alfalfa grows best on deep, sandy loam, underlain by a loose soil and permeable subsoil. It will not grow if there is an excess of water in the soil. The land must be well drained.

Alfalfa is a deep feeder. Plow the land thoroughly; the deeper the better.

Alfalfa thrives best in soils containing lime, potash and magnesium. It does not grow well in soils containing an excess of iron, or where lime is wholly absent.

Cut for hay when the first flowers appear. If cut in full bloom the hay will be woody and less nutritious.

Cut for seed when the middle clusters of seed pods are dark brown.

To make Alfalfa hay, cut in the forenoon and let it wilt; then rake into windrows. It should be cured in windrows and cocks, and stacked or put in barns with as little handling as possible. Great care is required in order to get it in stack before the leaves become too dry and brittle. The leaves are the most palatable and nutritious part of the hay.

Cover the stacks with caps. This will prevent loss by molding when it rains.

In the arid regions, where irrigation is practiced, put water on the field before sowing the seed, and immediately after cutting each crop of hay.

It is not safe to pasture either cattle or sheep on Alfalfa, as they are liable to bloat when it is fed green. Feed them the hay, or practice soiling.

There is no better or cheaper way of growing hogs than to pasture them on Alfalfa. One acre will furnish pasturage for from ten to twenty hogs per season.

Horses can be pastured on Alfalfa. There is no better hay for work animals, or for young growing stock.

Alfalfa hay is not a complete ration. The best results are got by feeding it with corn fodder, ensilage, wheat or oat straw, or roots. Alfalfa contains large amounts of protein, which goes to form blood, bone, and muscle. It is deficient in the carbohydrates, namely, starch, fats, and cellulose or fibre. These must be added to the ration, or a part of the protein will be wasted.

To rid a field of Alfalfa, plow in midsummer, turning up the roots to the hot sun. Or, if the field can be irrigated, let the water stand on it two or three days in midsummer. This will rot the roots, and after the water has been drained off the field can be plowed.

Do not cut Alfalfa too late in the season.

Do not let water stand on a field more than forty-eight hours.

Alfalfa hay, properly cured, has about the same value as red clover hay. The yield is much greater. It can be cut from three or four to seven or eight times in a season, and yields from a ton to a ton and a half or more at a cutting.

Six to ten bushels of seed is the usual yield per acre.

Keep the weeds mowed and raked off the first season, or they will choke out the young Alfalfa.

Sow alone, without any nurse crop. The latter is often just as harmful as the weeds.

Screen Alfalfa seed before sowing, to separate the dodder and other weed seeds. Dodder or love vine is the worst enemy of Alfalfa. Prevention is better than cure.

LETTER ON THE VALUE OF THE RYE CROP.

The following letter is from a clipping of the *Southern Stockman and Farmer*, published at Starkville, Miss., October 15, 1892:

VALUE OF THE RYE CROP—The letter below was written to Mr. Richard Frotcher of New Orleans, the well known seedsman, by Mr. H. Wilkinson, manager of Poplar Grove Plantation, Port Allen E. Baton Rouge Parish, La.

My Dear Sir:—In reply to your inquiry as to our success with Rye during the past five years, I would say that we are very much pleased with it. Its great value for winter pasturage cannot be too highly recommended, and we believe it would be much more extensively planted, were the benefits to be derived from a winter pasture more generally considered. Failures to get a good stand of this grain are frequently reported, but if a thorough investigation could be made as to the cause of these failures, we believe that want of proper preparation of the land would be the prime reason. We have never failed to get a full stand from 1½ bushels to the acre, planted at time between the 10th of September and 20th of October, and we believe could be successfully planted later, but would not be grown enough to turn stock on at the time our native grasses begin to dry up, which in this latitude is usually about November 15th. Its germination was much delayed by the extreme drought of last fall (1891), but after the first shower near the end of October, it sprang up uniformly, and at the end of November it was ready for pasturage.

If the date for planting can be fixed, we would advise that plowing the land be deferred until that time, October 20th, as during the long spell of dry weather we are apt to have during the fall, freshly plowed land is apt to bake rapidly and become very cloddy. Everything ready, we would advise that the land be deeply plowed, harrowed at once, and the sower or seeder immediately follow the harrow. The covering should follow at once for

two reasons: 1st, to prevent the seed from being picked up by birds; and 2d, to get them in moist land. The covering should not be effected with any ordinary harrow, but should be done with a drag made of two boards fitted to two or more cross pieces in the reverse position of weather boards on a house. This inexpensive implement dragged over the land crushes small clods, covers the seed sufficiently, and levels the ground very uniformly, giving it a good surface drainage and preventing the washing away of seeds by small trenches or gullies.

We have paid little attention to any of the spring or summer grasses, as our native Bermuda, Crab Grass, White Clover and Pea vines afford good summer forage and pasturage. Nothing that we have tried has been as satisfactory as the Rye for winter pasturage, and we will not plant anything else for that purpose. Any planter who has from 25 to 100 mules to feed will find their condition from December 1st to April 1st much improved by a few hours grazing each week on a Rye patch from five to twenty acres.

The Butter Plate both in the fullness and color of its contents offers the highest testimonials by its appearance to those whose land means limit them to an area not measured by acres.

We cannot speak of the relative merits of Northern and Southern grown seed, as we have not used any excepting those supplied by you, and we do not know where they came from. Confident that they were the best, we have planted every year with uniform good results. Any further information we can give on this subject will always be at your disposal. With kindest regards and wishes for a prosperous business season, followed by a bountiful harvest to your patrons.

H. WILKINSON.

DESCRIPTIVE LIST

OF THE DIFFERENT VARIETIES OF THE SORGHUM FAMILY,
SUITABLE FOR THE SOUTHERN STATES.



Amber Sorghum.

Sorghum is planted for feeding stock during the spring and early summer. For this purpose it should be sown as early in spring as possible in drills about two to three feet apart; three or four quarts per acre. It makes excellent green fodder.

As a forage plant for early cutting, to be fed to stock, we do not think that anything is equal to the Amber Sorghum, such as we have been selling for years, imported from Kansas. After several cuttings, the branching varieties of Sorghum, also called Millo Maize, may be preferable, but more so for seed than forage. The Teosinte will give more fodder than any of the Sorghums. Some varieties not before described and rather new here are the following:

White Millo Maize, or Branching Dhouro, should be planted in four or five foot rows and two to three feet in the drills, according to the strength of the land. The cultivation is like corn. It gives an abundance of leaves and seed; the latter are good feed for fowls. We have dropped the Yellow Millo Maize, as fowls do not eat the seed as readily as the white. See Price List.

KAFFIR CORN

This is a variety of Sorghum non-saccharine, and distinctly differing in habit of growth and other characteristics from all others of that class. The plant is low, stalks perfectly erect, the foliage is wide, alternating closely on either side of the stalks.

It does not stool from the root, but branches from the top joints, producing from two to four heads of grain from each stalk. The heads are long, narrow and perfectly erect, well filled with white grain, which at maturity is slightly flecked with red or reddish brown spots. Weight, 60 lbs. per bushel.

The average height of growth on good strong land, $5\frac{1}{2}$ to 6 feet; on thin land $4\frac{1}{2}$ to 5 feet. The stalk is stout, never blown about by winds, never tangles, and is always manageable, easily handled. A boy can gather the grain heads or the fodder. The seed heads grow from 10 to 12 inches in length, and product of grain on good land easily reaches 50 to 60 bushels per acre.

It has the quality common to many Sorghums of resisting drought. If the growth is checked for want of moisture, the plant waits for rain, and then at once resumes the processes, and in the most disastrous seasons has not failed so far to make its crop. On very thin and worn lands it yields paying crops of grain and forage, even in dry seasons in which corn has utterly failed on the same lands.

The whole stalk, as well as the blades, cures into excellent fodder, and in all stages of its growth is available for green feed, cattle, mules and horses being equally fond of it, and its quality is not surpassed by any other known variety. If cut down to the ground two or more shoots spring from the root, and the growth is thus maintained until checked by frost.

The Kaffir Corn may be planted in the latter part of March or early in April. It bears earlier planting than other Millets or Sorghums. It should be put in rows not over three feet apart, even on the best land, and it bears thicker planting than any other variety of Sorghum; should be massed in the drill on good land, for either green or forage purposes, and also on thin land, if forage mainly is desired. No plant can equal it for quality and quantity of grain and forage on thin lands. Use 3 to 5 lbs. of seed per acre. See price list.

TEOSINTE.

Reana or *Euchloena luxurians*.

One of the most luxuriant growing forage plants introduced, of South American origin, and one which in point of growth and amount of nourishing foliage excels any other forage plant known.

In good soil and with proper cultivation it will throw up from 15 to 30 stalks on one plant to a height of from 10 to 12 feet, densely covered with foliage.

In order to be successful with Teosinte, it should be sown in drills as early as the beginning of March as it takes generally from 14 to 20 days before the seed germinates. In this manner a good stand may be had at the beginning of April.

For green fodder, Teosinte may be cut three or four times during the season, but then it should not be allowed to grow any taller than three or four feet.

In cutting it is advisable to cut it clean to the ground, as this will insure a heavier growth than when cut too high. Teosinte in its own native country is a perennial, but with us it is invariably killed during winter and may, therefore, be considered an annual.

The seed, which we have on hand, is imported, as in our climate it will never produce any. Price per lb., \$1.00; per $\frac{1}{4}$ lb., 30c; per oz., 10c.

DHOURO, or EGYPTIAN CORN.

Sorghum Vulgare.

This is a well known cereal. It produces a large quantity of seed, of which fowls and animals are fond. Can also be sown broadcast for soiling, or in drills for fodder and seed. If sowed in drills, one peck of seed per acre is ample. If sown broadcast, one bushel per acre. For grain, the stalks should not be nearer than 10 inches in the drill, but if to be cut repeatedly for soiling, it is better to sow quite thickly in the hills. Seed should not be sown too early, and covered from one-half to one inch. If too much rain in the spring, the seed will not come well; they require more heat than the other Sorghums.

RURAL BRANCHING SORGHUM or MILLO MAIZE.

Produces the seed heads upright in a vertical position, while the others are drooping. The seeds are smaller but will keep longer than the other varieties. The stalk grows very large and produces a good many large leaves. It suckers and tillers more and more the oftener it is cut. It exceeds greatly in yield of green fodder any of the familiar fodder plants, except the "Teosinte." It should be planted exclusively in the drills four feet apart, 18 to 20 inches in the drills.

BROOM CORN.

Can be planted the same as corn; put the hills closer together in the row. Six quarts will plant an acre.

JOHNSON GRASS.

Sorghum Halapense.

This has been called Cuba grass, Egyptian grass, Means grass, Alabama and Guinea grass.

It seems pretty well agreed now, however, to call it Johnson grass, and leave the name Guinea grass for the *Panicum jumentorum*, to which it properly belongs.

It is true that in Mr. Howard's pamphlet, as well as in many periodicals and books, and in letters and common usage, this grass has been far more generally called Guinea grass than the true Guinea grass itself, thus causing vast confusion. It is, therefore, assuredly time to call each by its right name. Johnson grass is perennial and has cane-like roots, or more properly, underground stems, from the size of a goose-quill to that of the little finger. These roots are tender, and hogs are fond of and thrive on them in winter. The roots literally fill the ground near the surface, and every joint is capable of developing a bud. Hence the grass is readily propagated from the root cutting. It is also propagated from the seeds, but not always so certainly; for in some localities many faulty seed are produced, and in other places no seeds are matured. Before sowing the seeds, therefore, they should be tested, as should all grass seeds indeed, in order to know what proportion will germinate, and thus what quantity per acre to sow. One bushel of a good sample of this seed is sufficient for one acre of land.

The leaf, stalk and panicle of this grass resemble those of other sorghums. It grows on any land where corn will grow; and like the latter, the better the land the heavier the crop. On rich land the culms obtain a size of over half an inch in diameter, and a height of seven feet. It should be cut while tender, and then all live stock are fond of it, for a few weeks are sufficient to render it so coarse and hard that animals refuse it, or eat sparingly.

A few testimonials are here quoted to give an idea of the productiveness and value of this plant. In a letter published in the Rural Carolinian for 1874, Mr. N. B. Moore, who had for more than forty years grown crops, speaks of this grass under the name of Guinea grass:

"My meadow consists of one hundred acres of alluvial land near Augusta. * * * In winter I employ but four men, who are enough to work my packing press; in summer, when harvesting, double that number. In autumn I usually scarify both ways with sharp, steel-toothed harrows, and sow over the stubble a peck of red clover per acre, which with volunteer vetches, comes off about the middle of May. The second yield of clover is uniformly eaten up by grasshoppers. The top roots remain to fertilize the then coming Guinea grass, which should be but from two to three feet high. * * * On such land as mine it will afford three or four cuttings if the season is propitious. I use an average of five tons of gypsum soon after the first cutting, and about the same quantity of the best commercial fertilizer, in March and April. * * The grass, which is cut before noon, is put up with horse sulky rakes, in cocks, before sun-down."

Mr. Moore's income from this field was from seven thousand to ten thousand dollars a year.

Mr. Goelsel, of Mobile, says: "It is undoubtedly the most profitable soiling plant yet introduced, and also promises to be the plant for our Southern hay stack, provided it can be cut every three or four weeks."

Note—Recognizing all the above, we would say, that great care must be taken not to sow this grass near cultivated lands. If done so, it should not be allowed to go to seed, as the wind will blow them off from the stalks, and when it gets among cane or other crops it causes a great deal of trouble. It is almost impossible to get it out of the land.

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FLOWER SEEDS.

The following list of Flower seeds is not very large, but it contains all which is desirable and which will do well in the Southern climate. We import them from one of the most celebrated growers in Prussia, and they are of the best quality. There are very few or no flower seeds raised in this country, and Northern houses, which publish large lists and catalogues, get them from just the same source as ourselves; but they, on an average, sell much higher than we do. Some varieties, which are biennial in Europe or North, flower here the first season; in fact, if they do not, they generally do not flower at all, as they usually are destroyed by the continued long heat of summer. Some kinds grow quicker here and come to a greater perfection than in a more Northern latitude.

Flower seeds require a little more care in sowing than the vegetable seeds. The ground should be well pulverized and light enough not to bake after a rain. Some of the more delicate and finer varieties are better sown in boxes or seed pans, where they can be better handled and protected from hard rains or cold weather, the other kinds do not transplant well, and are better sown at once where they are to remain, or a few seeds may be sown in small pots to facilitate transplanting into the garden without disturbing the plants, when large enough. Some have very fine seeds, which the mere pressing of the hand or spade to the soil will cover; others may be covered one-fourth of an inch, according to their size. Watering should be done carefully, and if not done with a syringe, a watering pot, where the holes of the spout are very fine, should be used.

By setting the plants out, or sowing the seeds in the border, consideration should be taken of the height, so that the taller varieties may be in the middle and the dwarf kinds on the edge of the bed.

The seeds are put up at ten cents a package, fifteen packages for one dollar, except a few rare or costly kinds, where the price is noted. All flower seeds in packages are mailed free of postage to the purchaser. Where there is more than one color, we generally import them mixed, as we find that most of our customers do not wish to purchase six packages or more, of one variety in order to get all the colors. One package of Asters, Zinnia, Phlox, Chinese Pink, German Stocks, Petunia, Portulaca, and others, will always contain an equal mixture of the best colors.

Althea Rosea. Hollyhock. This flower has been much improved of late years, and is very easily cultivated. Can be sown from October till April. Very hardy; from four to six feet high.

Alyssum Maritimum. Sweet Alyssum. Very free flowering plants, about six inches high, with white flowers; very fragrant. Sow from October till April.

Antirrhinum majus. Snapdragon. Choice mixed. Showy plant of various col-

ors. About two feet high. Should be sown early, if perfect flowers are desired. Sow from October till March.

Aster. Queen Margaret. German Quilled. Perfect double quilled flower, of all shades, from white to dark purple crimson. One and a half feet high.

Aster. Trufant's Pæony-Flowered Perfection. Large double pæony-shaped flowers, of fine mixed colors; one of the best varieties. Two feet high; sow from Decem-

her till March. Asters should be sown in a box or in pots, and kept in a green-house, or near a window; when large enough, transplant into the border. Take a shovel of compost and mix with the ground before planting. Put three to four plants together and they will show better. They can be cultivated in pots.



Amaranthus Salicifolius, Fountain Plant.

Adonis autumnalis. Flos Adonis, or Pheasant's Eye. Showy crimson flower of long duration. One foot high. Sow from November till April.

Amaranthus caudatus. Love lies Bleeding. Long red racemes with blood red flowers. Very graceful; three feet high.

Amaranthus tricolor. Three-colored Amaranth. Very showy; cultivated on account of its leaves, which are green, yellow and red. Two to three feet high.

Amaranthus bicolor. Two-colored Amaranth. Crimson and green variegated foliage; good for edging. Two feet high.

Amaranthus Salicifolius. Fountain Plant. Rich colored foliage, very graceful.



Althea Rosea.

Five to six feet high. All varieties of *Amaranthus* should be sown from February to June.

Aquilegia. Columbine. A showy and beautiful flower of different colors; two feet high. Sow from October till March. Should be sown early if flowers are wished; if sown late will not bloom till next season.

Balsamina Hortensis. Lady Slipper. A well known flower of easy culture. Re-



Trufant's Pæony Flowered Aster.

quires a good ground to produce double flowers.

Balsamina. Improved Camelia-flowered. Very double and beautiful colors. The strain which we offer of this variety is very fine; but to have them perfect, they should not be sown too soon. In rich ground and during dry weather they require plenty of water.

Balsamina camelia flora alba. Pure white flowers, used for bouquets, about two feet high. Sow from February till August.

Bellis Perennis. Daisy. Finest double mixed variety; four inches high. From October till January.

Browallia elata major. A free blooming plant of about 12 inches in height, with very showy dark blue flowers. If sown in March it will flower all summer, but can also be sown in November potted and kept



German Quilled Aster.

*Amaranthus Caudatus.**Adonis Autumnalis.**Amaranthus Tricolor.*

under glass, where it will begin to bloom in the latter part of December and continue all winter.

Begonia tuberosa. A very thankful green-house plant with tuberous roots and large showy pink, white or red flowers. It is of easy culture and can be kept out of doors in a half shady place after the 15th of April. Sow from October till March in flower pots. Price, per packet, 25 cents.

Begonia Rex. A beautiful and showy green-house foliage plant of easy culture. Will do well out of doors during summer months, but requires a shady place. Sow like above. Price, per packet, 25 cents.

Cacalia coccinea. Scarlet Tassel Flower. A profuse flowering plant, with tassel-shaped flowers in cluster; one and a half feet. Sow February till May.

Calendula Officinalis. Pot Marigold. A plant which, properly speaking, belongs to the aromatic herbs, but sometimes cultivated for the flowers, which vary in different shades of yellow; one and a half feet high. From January till April.

Canna indica. Indian Shot. Handsome foliage plants with large spikes of bright crimson, scarlet, bright yellow, orange and spotted flowers of great attraction.

As Cannas grow well in our climate we have concluded to add them to our list of Flower seeds, considering them a good acquisition to our already large collection. Sow in boxes or flower pots from November to March. If sown in November they must be kept in a cold frame over winter. Price per package, 10 cents.

Celosia cristata. Dwarf Cock's Comb. Well known class of flowers which are very ornamental, producing large heads of crimson and yellow flowers; one to two feet high. Sow from February till August.

Cheiranthus Cheiri. Wall Flower. This flower is highly esteemed in some parts of Europe, but does not grow very perfectly here, and seldom produces the large spikes of double flowers which are very fragrant. Two feet high. November till March.

Campanula Speculum. Bell-Flower, or Venus' Looking Glass. Free flowering plants of different colors, from white to dark blue; one foot high. Sow December till March.

Centaurea cyanus. Bottle Pink. A hardy annual of easy culture; of various colors; two feet high.

Centaurea suavis. Yellow, Sweet Sultan. December to April.

Cineraria hybrida. A beautiful green-house plant. Seed should be sown in October or November, and they will flower in spring. Per package, 25 cents.

Cineraria Maritima. A handsome border plant, which is cultivated on account of its silvery white leaves. Stands our summer well.

Coleus. A well-known and beautiful bedding plant which can be easily propagated by seeds which produce different shades of colored plants.

Cyclamen persicum. Alpine Violet. A green-house plant with tuberous or rather bulbous roots, blooming abundantly, being possessed of very ornamental foliage and of



Double Daisy.



Cyclamen Persicum.

easy culture, it should not be missing in any collection of green-house plants. Sow in August and September in pots, transplant in small pots when large enough, and keep either in green-house or a room near the window, and give plenty of light and air. Keep bulbs dry during summer. Price, per packet 25 cents.

Correopsis. (Calleopsis.) Bright Eye Daisy. Handsome free blooming plants, of the easiest culture, 2 to 3 feet high, with yellow and brown daisy-like flowers. December to March.

Chrysanthemum tricolor (carinatum.) Summer Chrysanthemum. Showy summer bloomers of different colors, 12 to 15 inches high. If grouped together they have a pleasing effect. Sow in March and April.

Cosmos bipinnata hybrida. A very showy annual similar in shape to the Bright Eye Daisy or Correopsis, but taller and more brilliant in color. Being a native of Mexico it is well adapted to our climate and will bloom here almost the entire summer, but principally in the fall and early winter.

There are many different varieties of Cosmos, or as some botanists have it Cosmeas, but the principal and most suitable for our climate is *Cosmos bipinnata* in different shades and varieties. Of late this species of plants, although not a novelty, has become quite a favorite among the most of our flower-loving ladies, and therefore we have added it to our already large collection of

Flower seed. Price, per packet, 10 cents.

Dianthus Barbatus. Sweet William. A well known plant, which has been much improved of late years. Their beautiful colors make them very showy. Should be sown early otherwise they will not flower the first spring; one and a half feet high. October till April.

Dianthus Chinensis. Chinese Pink. A beautiful class of annuals of various colors, which flower very profusely in early spring and summer; 1 foot high; from October to April.

Dianthus Hedewiggii. Japan Pink. This is the most showy of any of the annual pinks. The flowers are very large and of brilliant

colors; one foot high. Sow from October till April.

Dianthus plumaris. Border Pink. A fragrant pink used for edging. The flowers are tinged, generally pink or white with a dark eye. Does not flower the first year; two feet high. Sow from January till April.

Dianthus caryophyllus. Carnation Pink. This is a well-known and highly esteemed class of flowers. They are double, of different colors, and very fragrant; can be sown either in fall or spring; should be shaded during midsummer and protected



Cosmos Bipinnata Hybrida.



Aquilegia, or Columbine.



Cheiranthus Cheiri.



Dianthus Chinensis, Double.



Centaurea Cyanus.



Dianthus Barbatus.



Celosia Cristata.



Balsamina Camelia-Flowered.



Calendula Officinalis.

from hard rains; three to four feet high. November till April.

Dianthus Picotee. Finest hybrids. Stage flowers saved from a collection of over 500 named varieties; per package, 50 cts.

Dianthus caryophyllus. Margaritae robustus. fl. pl. Semi-high double Margaret Carnations. This beautiful pink originated in Italy. It is of a dwarfish habit, grows from 12 to 15 inches high; the stalks are exceedingly strong, and therefore need no support. The flowers are much variegated, occasionally producing yellow ones. What makes this variety remarkable is that it flowers after four months from the time of sowing the seed, and produces about 80 per cent. of double flowers, unlike other Carnations, which are biennial and only bloom the second year.

Dianthus pumila. Early dwarf flowering Carnation. If sown early, this variety will flower the first season. They are quite dwarfish and flower very profusely. November till April.

Delphinium Imperialis, fl. pl. Imperial flowering Larkspur. Very handsome variety of symmetrical form. Mixed colors; bright red, dark blue and red striped; 1½ feet high.

Delphinium ajacis. Rocket Larkspur. Mixed colors; very showy; two and a half feet.

Delphinium Chinensis. Dwarf China Larkspur. Mixed colors; very pretty; one foot high. November till April.

NOTE—None of the Delphiniums or Larkspurs transplant well, and are better sown at once where they are intended to remain.

Dahlia. Large flowering Dahlia. Seed sown in the spring will flower by June. Very pretty colors are obtained from seed, the semi-double or single ones can be pulled up as they bloom; but those seeds which are saved from the double varieties will produce a good percentage of double flowers. February till June.

Eschscholtzia Californica. California Poppy. A very free flowering plant, good for masses. Does not transplant well. One foot high. December till April.

Gaillardia lorentziana. Two-colored Gaillardia. Very showy plants which continue to flower for a long time. Flowers red, bordered with orange yellow. One and a half feet high. January till April.

Gomphrena alba and purpurea. White and Crimson Bachelor Button or Globe Amaranth. Well known variety of flowers; very early and free flowering; continue to flower for a long time. Two feet high. From February till August.

Geranium Zonale. Zonale Geranium. Seed saved from large flowering varieties of different colors; should be sown in seed pans, and when large enough transplanted into pots, where they can be left or transplanted in spring into the open ground.

Geranium pelargonium. Large flowering Pelargonium. Spotted varieties, 25 cents per package.

Geranium odoratissima. Apple scented Geranium. Cultivated on account of its fragrant leaves; 25 cents per package. Both of these kinds are pot plants, and require shade during hot weather. Should be sown during fall and winter.

Heliotropium. Mixed varieties with dark and light shaded flowers. A well-known plant, esteemed for the fragrance of its flowers, which are produced during the whole summer in great profusion. This plant is generally propagated by cutting, but can also be raised from seed. Should be sown in a hot-bed if sown early.

Helichrysum monstrosum album. White Everlasting Flower. Very showy double flowers. One and a half feet high.

Helichrysum monstrosum rubrum. Red Everlasting Flower. Very ornamental. One and a half feet high. December till April. Does not transplant well.

Helianthus fl. pl. Double Flowering Sunflower. A well known plant, with showy yellow flowers, the double is often cultivated in the flower garden. The



*Cacalia Coccinea.**Delphinium Chinensis.**Dianthus Caryophyllus.**Centaurea Suavolens.*

Early Dwarf Double Carnation Pink.



Purple Globe Amaranth.

*Dianthus Picotee.**Dianthus Heddeiggii.*



Blue Grove Love.



Double Matricaria.



Nigella Damascena.

single varieties are cultivated mostly for the seed. They are said to be anti-malarious. Four feet high. February till May.

Iberis amara. White Candytuft. A well known plant raised a good deal by florists for bouquets. Can be sown at different times to have a succession of flowers. One foot high.

Iberis umbelata rosea. Purple Candytuft. One foot. October till April.

Linum grandiflorum rubrum. Scarlet Flax. A very pretty plant for masses or borders, with bright scarlet flowers, dark in the centre. One foot. January till April.

Lobelia erinus. Lobelia. A very graceful plant with white and blue flowers, well adapted to hanging baskets or borders. Half foot. October till March.

Lychnis chalcidonica. Lychnis. Fine plants with scarlet, white and rose colored flowers. Two feet. December till April.

Mathiola annua. Ten weeks stocks. This is one of the finest annuals in cultivation. Large flowers of all colors, from white to dark blue or crimson. Should be sown in pots or pans, and when large enough transplanted into rich soil. One and a quarter feet. October till March.

Mesembryanthemum crystallinum. Ice Plant. Neat plant with icy looking foliage. It is of spreading habit. Good for baskets or beds. One foot. February till March.

Mimulus tigrinus. Monkey flower. Showy flowers of yellow and brown. Should be sown in a shady place. Does not transplant well. Half foot. December till March.

Matricaria capensis. Double Matricaria. White double flowers, resembling the Daisy, but smaller, are fine for bouquets; blooms nearly the whole summer. Two feet. December till March.

Mimosa pudica. Sensitive Plant. A curious and interesting plant which folds up its leaves when touched. One foot. February till March.

Mirabilis jalapa. Marvel of Peru. A well known plant of easy culture; producing flowers of various colors. It forms a root which can be preserved from one year to another. February till June. Three feet.

Myosotis palustris. Forget-me-not. A fine little plant, with small, blue, star-like flowers. Should have a moist, shady situation. Does not succeed so well here as in Europe, of which it is a native. Half foot high. December till March.

Nemophila insignis. Blue Grove Love. Plants of easy culture, very pretty and profuse bloomers. Bright blue with white centre. One foot high.

Nemophila maculata. Large white flowers, spotted with violet. One foot high. December till April.

Nigella damascena. Love in a Mist. Plants of easy culture, with light blue flowers. Does not transplant well. One foot high. December till April.

Nierembergia gracilis. Nierembergia. Nice plants with delicate foliage, and white flowers tinted with lilac. One foot high. November till April.

Oenothera Lamarckiana. Evening Primrose. Showy, large yellow flowers. November till April. Two feet high.

Papaver somniferum. Double flowering Poppy. Of different colors; very showy.

Papaver ranunculus. Flowered. Double fringed flowers, very showy. Cannot be transplanted. Two feet high. October till March.

Petunia hybrida. Petunia. Splendid mixed hybrid varieties. A very decorative plant of various colors, well known to almost every lover of flowers. Plants are of spreading habit; about one foot high. January till May.

Phlox Drummondii. Drummond Phlox. One of the best and most popular annuals in cultivation. Their various colors and length of flowering, with easy culture, make them favorites with every one. All

fine colors mixed; one foot high. December till April.

Phlox Drummondii grandiflora, Stellata Splendens. This is admitted to be the richest colored and most effective of all large flowered Phloxes. It combines all the good qualities of the Splendens, with the addition of a clearly defined, pure white star, which contrasts strikingly with the vivid crimson of the flowers.



Scabiosa Nana.

Phlox Drummondii grandiflora alba. Pure white, some with purple or violet eye.

Portulaca. A small plant of great beauty, and of the easiest culture. Does best in a well exposed situation, where it has plenty of sun. The flowers are of various colors, from white to bright scarlet and crimson. The plant is good for edging vases or pots; or where large plants are kept in tubs, the surface can be filled with this neat little genus of plants. Half foot high. February till August.



Enothera Lamarckiana.

Portulaca grandiflora, fl. pl. Double Portulaca. The same variety of colors with semi-double and double flowers; half foot high. February till August.

Primula veris. Cowslip. An herbaceous plant of various colors, highly esteemed

in Europe. Half foot high. December till April.

Primula Chinensis. Chinese Primrose. A green-house plant which flowers profusely and continues to bloom for a long time; should be sown early to insure the plant flowering well. Different colors mixed. per package, 25 cents. One and a half feet high. October till February.

Pyrethrum aurea. Golden Feather.



Portulaca.

The flowers resemble Asters. It has bright yellow leaves which make it very showy as a border if massed with plants such as Coleus, etc.

Reseda odorata grandiflora. Sweet Mignonette. A fragrant plant with large spikes of yellowish red flowers and a favorite with everybody. Fifteen inches high. December till April.

Scabiosa nana. Dwarf Mourning Bride. Plants of double flowers of various colors. One foot high. December till April.

Saponaria calabrica. Soapwort. A very free flowering annual, of easy culture,



Tagetes Erecta.

resembling somewhat in leaves the Sweet William. One and a half feet high. December till April.

Salvia Splendens. Scarlet Salvia or Red Flowering Sage. A pot or green-house plant, but which can be grown as an an-



Lychnis Chalcedonica.



Matthiola Annua.



Ice Plant.



Geranium Pelargonium.



Lobelia Erinus.



Heliotropium.

nual, as it flowers freely from seed the first year. Two to three feet high. February till April.

Silene Ameria. Lobel's Catchfly. A free blooming plant of easy culture; flowers almost anywhere; red and white. One and a half feet high.



Phlox Drummondii Grandiflora.



Phlox Drummondii Grandiflora Stellata Splendens.



Hybridized Verbena.



Geranium Zonale.



Papaver Ranunculus Flowered.



Primula Veris.



Viuca Rosea and Alba.



Petunia Hybrida.



Gaillardia Bicolor.



Helichrysum Monstrosum Album.

Tagetes erecta. African or Tall growing Marigold. Very showy annuals for borders, with bright yellow flowers growing upright. Two and a half feet high.

Tagetes Patula. French or Dwarf Marigold. A very compact dwarf growing variety, covered with yellow and brown flowers. One and a half feet high. January till April.

Torenia Fournieri. A plant from Mexico of recent introduction, but which has become very popular in a short time. It stands the heat well, is well adapted to pot culture and makes one of the most valuable bedding plants we have. The flowers are of a sky blue color, with three spots of dark blue. The seeds are very fine and take a good while to germinate. It transplants very easy.

Verbena hybrida. Hybridized Verbena. A well known and favorite flower for borders. Their long flowering and great diversity of color make them valuable for every garden however small. All colors mixed. One and a half feet high. January till April.

Verbena Striped Italian. These are beautiful striped kinds of all colors with large eyes.

Verbena Candidissima. White Verbena. Pure white Verbena of more or less fragrance. One and a half feet high. January till April.

Vinca rosea and alba. Red and



Double Portulaca.

White Periwinkle. Plants of shining foliage, with white and dark rose colored flowers, which are produced the whole summer and autumn. Two feet high. February till April.

Viola odorata. Sweet Violet. Well known edging plant, which generally is

propagated by dividing the plants; but can also be raised from seed. Half foot high. Sow from January till March.

Viola tricolor maxima. Large flowering English Pansy. This is one of the finest little plants in cultivation for pots or the open ground. They are of endless colors and markings. When planted in the garden they will show bet-



Large Trimardeau Pansy.



Petunia Hybrida Double.



Double Zinnia.



Striped Italian Verbena.



Torenia Fournieri.



Choicest Large English Pansy.



Zinnia Elegans, Grandiflora Robusta Plenissima.

ter if planted in masses, and a little elevated above the level of the garden. Half foot high. October till March.

Large Trimardeau Pansy. This is the largest variety in cultivation; the flowers are well formed, generally three-spotted; quite distinct; the plants grow compact.

Non Plus Ultra. Benary's Elite Pansy. This new variety from Germany is the finest of all Pansies. Endowed with well-formed flowers in endless colors and shades; they form a valuable acquisition to our many varieties in cultivation, and should not be missing in any garden. Price, 10c. per packet.

Cassier's Improved Pansy. A beautiful variety with large flowers of most perfect form, exquisite coloring and very compact growth. The flowers are generally five-spotted, but more distinctly marked than the Trimardeau. Price, 25c per packet.

Bugnot's Improved blotched Pansy. This new variety is certainly the handsomest of all the Pansies, and like the Odiers are five-blotched and generally yellow or white edged. The flowers are of the most perfect form and beautiful coloring. This variety is one of the best and forms a fine acquisition to our already large collection. Price, per packet 25c.



Reseda Odorata.



Tagetes Patula.

Zinnia elegans, fl. pl. Double Zinnia. Plants of very easy culture, flowering very profusely through the whole summer and fall; producing double flowers of all colors, almost as large as the flowers of a Dahlia. Three feet high. February till August.

Zinnia elegans pumila, fl. pl. Dwarf Double Mixed. A new dwarf selection especially desirable. The compact, bushy plants rarely grow over two feet high, and are covered with large flowers of great beauty.

Zinnia elegans grandiflora robusta plenissima. A new variety recently introduced here from Germany. The plants of this new class of showy and attractive annuals are of very robust growth and produce very large and extremely double flowers, measuring from 4 to 5 inches in diameter. The seeds we offer for sale come direct from the originator, and contain about eight beautiful different colors, mostly very bright.

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CLIMBING PLANTS.

Antigonum leptopus. Rosa Montana. One of the finest perennial climbers of rapid growth with long racemes of beautiful deep pink flowers. Being a native of Mexico, it is well adapted to our climate and will stand our most severe winters without any further protection than perhaps a slight cover of moss or straw. Sow in February or March in flower pots, and transplant into the open ground in May. Will flower freely the first year. Without any doubt the finest climber for this section.

Aristolochia elegans. A new variety of the well known "*Dutchman's pipe*," (which however will not grow here); of vigorous growth and quite hardy in our climate. It is a profuse bloomer, bearing large flowers of a rich purple color with irregular branched markings of creamy white and golden yellow center with rich velvety purple. This plant is one of the most thankful of all climbers, blooming when quite young and continuing to do so the whole summer. Will stand our winter without protection. Sow in January and February in flower pots and transplant in open ground when large enough.

Benincasa erifera. Wax Gourd. A strong growing vine with long shaped, dark crimson fruit, which looks very ornamental. It is used for preserves.

Cardiospermum. Balloon vine. A quick growing climber, the seeds of which are in a pod, shaped like a miniature balloon, therefore the name.

Cobæa scandens. Climbing Cobæa. Large purple bell-shaped flowers. Should be sown in a hot-bed and not kept too moist. Place the seed edgewise in the ground. Twenty feet high. January till April.

Convolvulus major. Morning Glory. Well known vine with various handsomely colored flowers of easy culture. Grows almost anywhere. Ten feet high. February till July.

Cucurbita. Ornamental Gourd. Mixed varieties or Ornamental Gourds of different shapes and sizes. February till May.

Cucurbita lagenaria dulcis. Sweet Gourd. A strong growing vine of which the young fruits are used like squash. February till April.

Dolichos Lablab. Hyacinth Beans. Free growing plant, with purple and white flowers. March till April.

Ipomæa Quamoclit rosea. Red Cypress Vine. Very beautiful, delicate foliage of rapid growth, with scarlet star-shaped flowers.

Ipomæa Quamoclit alba. White Cypress Vine. The same as the Red variety.

Ipomæa Bona Nox. Large Flowering Evening Glory. A vine of rapid growth, with beautiful blue and white flowers which open in the evening. Twenty feet high. February till June.



Balloon Vine.



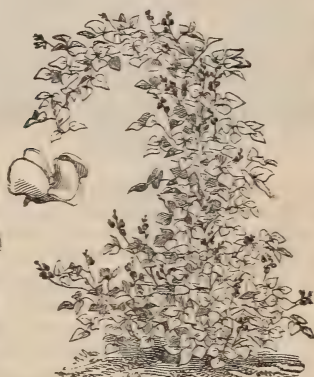
Climbing Cobaea.



Mixed Thunbergia.



Morning Glory.



Hyacinth Beans.



Maurandia Barclayana.

This is the Moon Flower advertised in Northern catalogues as a novelty, notwithstanding the fact that it has been known here for the past century.

Lathyrus odoratus. Sweet Peas. Beautiful flowers of all colors, very showy. Good for cut flowers. Six feet high. December till April.

Maurandia Barclayana. Mixed Maurandia. A slender growing vine of rapid growth. Rose purple and white colors mixed. Ten feet high. February till April.

Mina Lobata. A showy plant from Mexico of the well know Ipomæa family,

with beautiful spikes or racemes of yellowish white flowers. The buds are at first of a bright red, but soon change to orange yellow and when in full bloom to a yellowish white, forming a fine contrast with the dense and luxuriant foliage. This plant does well in sunny situations and cannot be surpassed for evening arbors, trellises, etc., but is however sometimes affected by our heavy and lasting summer showers. Should be sown early in order to get it to perfection as it blooms only when fully grown. Price, per packet, 25c.

*Aristolochia Elegans.**Mina Lobata.*

Mamordica Balsamina. Balsam Apple. A climbing plant of very rapid growth, producing Cucumber-like fruits, with warts on them. They are believed to contain some medicinal virtues. They are put in jars with alcohol and are used as a dressing for cuts, bruises, etc.

Luffa acutangula. Dish Rag Vine. A very rapid growing vine of the Gourd family. When the fruit is dry, the fibrous substance, which covers the seeds, can be used as a rag. February till April.

Secchium edulis. Vegetable Pear or Mirliton. A rapid growing vine with grape-like leaves, of which the fruit is eaten; there are two varieties, white and green. It has only one seed, and the whole fruit has to be planted.

Tropæolum majus. Nasturtium. Trailing plants with elegant flowers of different shades, mostly yellow and crimson, which are produced in great abundance. Four feet high. February till April.

Thunbergia. Mixed Thunbergia. Very ornamental vines, with yellow, bell-shaped flowers with dark eye. Six feet high. February till May.

BULBOUS ROOTS.

Anemones. Double-flowering. Planted and treated the same as the *Ranunculus*. They are of great varieties in color. Double Dutch, 30 cents per dozen.

Dahlias. Fine double-named varieties. Plants so well known for their brilliancy, diversity of colors and profuse flowering qualities, that they require no recommendation. They can be planted from February

till May, and thrive best in rich loamy soil. They should be tied up to stakes, which ought to be driven into the ground before or when planting them. To have them flower late in the season they should be planted late in the spring, and the flower buds nipped off when they appear; treated in this way they will produce perfect flowers during fall. Undivided roots, \$3 per dozen.

The roots we offer are of the very best type, having taken special pains to discard varieties which did not flower well here.

Gladiolus. Hybrid Gladiolus. One of the best summer flowering bulbs; they have been greatly improved of late years, and almost every color has been produced, tinged and blotched in all shades from delicate rose to dark vermillion. When planted at intervals during spring, they will flower

at different times, but those that are planted earliest produce the finest flowers. The roots should be taken up in the fall.

Hybrids mixed, first choice (extra), 10 cents each; 75 cents per dozen.

Hybrids, white ground, first choice, 10 cents each.

Hybrids mixed, 50c. per dozen.

Gloxinias. These are really bulbous green-house plants but they can be cultivated in pots and kept in a shady place in the garden, or window. They are very beautiful; color from white to dark violet and crimson. The leaves are velvety, and some varieties very large. They should be planted early in spring; require sandy ground and a good deal of moisture during flowering time. French Hybrids, strong bulbs, 20 cents each; \$2.00 per dozen.

Hyacinths. (DUTCH.) Double and single. The Hyacinth is a beautiful flowering bulb, well suited for open ground or pot culture. They should be planted from October till February. If planted in pots it is well to keep in a cool, rather dark place, till they are well started, when they can be



Liliun Tigrinum fl. pl.



Liliun Lancifolium Rubrum.



Single Hyacinth.



Double Hyacinth.



Anemones.



Hybrid Gladiolus.



Gloxinias.



Dahlias.

placed in the full light and sun. Double and single, 5c. each; 50c. per dozen.

Narcissus. Bulbs of the easiest culture, planted from November to January.

Double White, sweet scented, 35c. per dozen.

Paper White, (single.) Price, 5c. each; 50c. per dozen.

Trumpet Major, (single). very fine, 50c. per dozen.

Von Sion, 50c. per dozen.

Lilium tigrinum. Tiger Lily. A well known variety, very showy and of easy culture. 10c. each.

Lilium tigrinum, fl. pl. This is a very fine variety; it is perfectly double, and

the petals are imbricated almost as regularly as a camelia flower. Very fine; 15 cents each.

Calla Aetheopica. Lily of the Nile. As a winter blooming bulbous rooted pot plant there is hardly anything to come up to the beautiful Calla Lily. The plant which is of an easy culture will bloom in the green-house as well as in a room near the window or even on the veranda as long as it is kept frost free. It may also be grown in a fishpond or tank in a green-house and produce its large pure white flowers. Bulbs should be potted in the months of October, November and December, and may be had to bloom from Christmas to March.

Have large bulbs on hand, which we sell at 20 cents each, or \$2 per dozen.

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JAPAN LILIES.

Lilium auratum. Golden Band Lily. This is a very handsome lily; the flowers are large and white, each petal having a yellow stripe. It is of easy culture. A loamy, dry soil suits it best, if planted one inch deep.

The past season we had occasion to see several of these noble lilies in bloom, and they were really fine; half a dozen flowers opening at the same time and measuring

These Japan Lilies are very beautiful and fragrant. Should be planted from October till January. Perfectly suited to this climate.

Ranunculus. Double Flowering. The roots can be planted during fall and winter, either in the open ground or in pots. The French varieties are more robust than the Persian, and flowers are larger. The ground should be rather dry, and if planted in the



Ranunculus.

from six to nine inches across. Very fragrant. We have fine bulbs, imported direct from their native country. Flowering bulbs, 20 cents each.

Lilium lancifolium album. Pure white Japan Lily, 25 cents each.

Lilium lancifolium rubrum. White and red spotted, 15 cents each.

Lilium lancifolium roseum. Rose spotted, 15 cents each.



Scilla Peruviana.

open ground, it will be well to have the spot a little higher than the bed or border. French Ranunculus. 25 cents per dozen.

Tulips. Double and single Tulips thrive better in a more Northern latitude than this, but some years they flower well here, and as they are cheap, a few flowering bulbs will pay the small amount they cost. They should not be planted later than December, and placed very shallow in the ground; not

more than one-third of the bulb should be covered. When near flowering they require a good deal of moisture. Single and double, 50 cents per dozen.

Scilla peruviana. These are greenhouse bulbs at the North, but here they are hardy, and do well in the open ground. There are two varieties—the blue and the white. They grow up a shoot, on the end



Double Tulip.



Single Tulip.

of which the flowers appear, forming a truss. Plant from October till January. 25 cents each.

Tuberoses. Double Flowering. They are ornamental for the garden, and very valuable for making bouquets, on account of their pure white color and great fragrance. Plant during the spring months. Strong bulbs, 5 cents each; 50c. per dozen.



Lilium Auratum.



Tuberoses, Double Flowering.

DISTANCES APART TO PLANT TREES, VINES, ETC.

Peaches, Plums, Standard Pears, Apricots, in light soil, 16 to 18 feet; in strong soil, 18 to 20 feet each way.

Figs should be planted 20 to 24 feet apart.

Dwarf Pears, Quinces, etc., 10 to 15 feet apart.

Japanese Persimmons, 10 to 11 feet.

Grapes, such as Delaware, Ives Seedling,

which are of slow growth, 6 to 8 feet apart each way.

Thrifty growers, like Concord, Triumph, Goethe, etc., 8 to 10 feet apart.

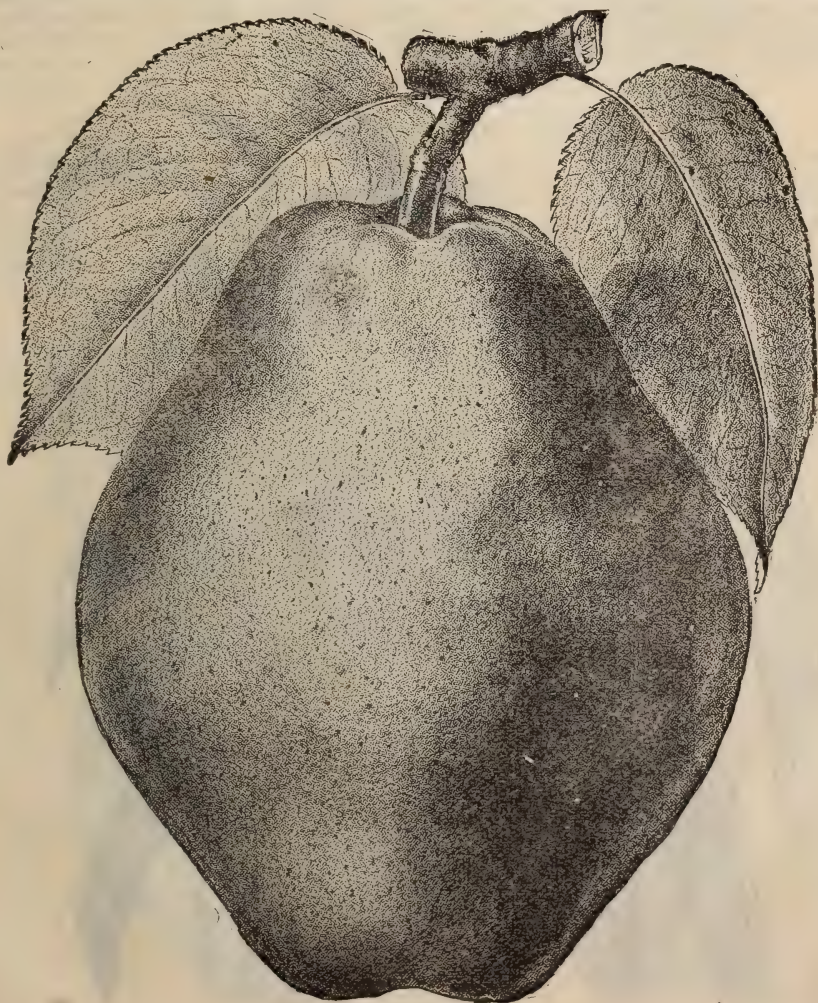
Herbmont, Cynthia, etc., which are the most rapid growers, 12 feet apart, in rows 3 feet wide.

LE CONTE PEAR.

This Southern Pear is as vigorous in growth as the China Sand, and is an enormous bearer. The fruit is large, pale yellow, juicy, melting, and of good quality, doing better in the South than elsewhere. It bears transportation well. Time of ripening

begins about the middle of July. It promises to be the pear for the South.

Rooted one year old trees, 4 to 6 feet 20c. each; \$12.00 per 100; \$1.50 per dozen; two year old trees, 6 to 8 feet, 25c. each; \$2.00 per dozen; \$15.00 per 100.



Kieffer Pear.

DIRECTIONS FOR PLANTING LE CONTE PEAR TREES.

Plant the tree up to the collar in a large hole, filling it with a rich loam in which some fertilizer has been mixed; press the earth in firmly around the roots, using water in dry weather; trim back one-half of each year's growth till the fourth year, then trim only ingrowing and chafing limbs with a view to spreading the head. Plant thirty feet each way. Clean culture and broadcast manuring are best. For best results plant large one year trees, and only those grown from cuttings.

KIEFFER'S HYBRID PEAR.

A variety from Philadelphia; a hybrid between the China Sand and Bartlett, both of which resemble it in wood and foliage. It has the vigor and productiveness of its Chinese parents. Fruit large and handsome; bright yellow and red cheek; flesh tender, juicy and well flavored. It comes into bearing at an early age. Ripens end of September, or beginning of October. It is an excellent sort for preserving.

One year old trees, branched and fine, 20c. each; \$1.75 per dozen.

BARTLETT PEAR.

This well known variety, one of the finest pears in cultivation, has been successfully cultivated here; but occasionally it has blighted. Since the introduction of the Le Conte, trials have been made with success, that is by grafting this, and other fine varieties, upon the Le Conte—by so doing, the trees are imparted with the vigor of the latter, growing stronger, and making finer and healthier trees. We offer trees grafted on the Le Conte stock for sale. One year old trees, 3-4 feet, 25c. each; \$2.00 per dozen.



Bartlett Pear.

DUCHESS D'ANGOULEME PEAR.

Another popular variety which does well in this section.—On Le Conte stock. One year old, 25c. each; \$2.00 per dozen.

HOWELL PEAR.

One of the best for here. Tree is an upright free grower, and an early and profuse bearer. One year old, 25c. each; \$2.25 per dozen.

CLAPP'S FAVORITE PEAR.

A large new Pear, resembling the Bartlett; but does not possess its musky flavor. Fine texture; juicy, with a rich, delicate vinous flavor. It is very productive. On Le Conte stock. One year old, 25c. each; \$2.25 per dozen.

JEFFERSON PEAR.

Another blight proof Pear, very distinct in habit and growth from other varieties under cultivation. Cannot be stated yet under what particular type or species it should be classed.

It ripens in Central Mississippi from the 1st to 10th of June, is in the market with the earliest peaches, and brings the highest prices. It is above medium size, color, bright yellow, with a bright deep crimson cheek. It is ripe and marketed before Le Conte is ready to ship. It is poor in flavor. One year old, 25c. each; \$1.75 per dozen.

SATSUMA OR BLOOD PLUM.

This Plum is from Japan and has been fruited in California a few years ago. The following is the description given by the introducer, Mr. Luther Burbank: "It is nearly six weeks earlier than the Kelsey, firm flesh; much larger, of finer quality, color and form. It is an early and enormous bearer, and the trees grow with more vigor than any of the other varieties of Japan Plums I have fruited here. The seed is also the smallest yet seen."

The flesh is dark red, solid color from skin to pit, firm, rather juicy, and of good flavor. Price, 30c. each; \$2.25 per dozen.

OGAN AND BOTAN PLUMS.

Two other Japan varieties. They are vigorous, handsome growers; branches smooth with rich light green foliage.



Wild Goose Plum.

The Ogan is a large yellow variety, ripens early, and is very sweet. The **Botan** is very large, reddish blue; a good keeping and shipping fruit. Japan fruit does well here generally; everybody should try a few of these plums.

Price, 25c. each; \$2 25 per dozen.

APRICOT PLUM.

(PRUNUS SIMONI.)

This Plum comes from North China. It was fruited for the first time in 1885 by a well known nurseryman in Texas. The fruit, when ripening, shine like apples of gold, and become a rich vermilion when ripe. It is very firm and mealy, and equal to any plum; and never been attacked by the Curculio. It will carry any desired distance.

Tree very thrifty, upright; early and abundant bearer.

Price, one year old trees, 25 cents each; \$2 25 per dozen.



Mariara Plum.

QUINCE TREES.

We have added to our assortment of Fruit Trees the Quince, which will do well in our climate. Quince trees, the fruit of which is used for preserving, are very ornamental, and bear well. We handle the Orange, Meeches' Prolific and Japanese varieties, which we sell at 40c. each.

WILD GOOSE PLUM.

A native variety from Tennessee, where it is highly esteemed for market. It is a strong grower; the fruit is large and of good quality.

Price, 20 cents each; \$1.75 per dozen.

MARIANNA PLUM.

This Plum originated in Texas, supposed accidental seedling of the Wild Goose. It is a rapid grower. Grows from cuttings, and never throws up any suckers or sprouts. Fruit as large, good and handsome as the Wild Goose; one to two weeks earlier; hangs on better; ships well; ripens and colors beautifully, if picked a few days previously. It is the best of the Chickasaw type. This variety and the Wild Goose should be fertilized by the common Chickasaw kind to have it bear well.

Price, 5—6 feet high, 20c. each; \$2.00 per dozen; \$13.00 per 100.

KELSEY'S JAPAN PLUM.

The *Prunus Domestica*, or European varieties, have proven worthless in the South generally. The above will take their place promising good results, being of Asiatic origin. The Kelsey Plum is from two to two and a half inches in diameter, heart-shaped, rich yellow, with purple cheek. Parties who have been fruiting it here in the South pronounce it the most magnificent plum they have seen; it weighs from 4 to 6 ounces. It excels all other plums for canning and drying, and will carry for a long distance better than any other kind. Matures middle of August to September. It has fruited in this neighborhood since five years, it is a most delicious fruit, and every one who plants fruit trees should not fail to plant some. We consider it a great acquisition. Price, 25 cents each; \$2 per dozen.

JAPANESE MESPILUS PLUM.

Eryolothria Japonica.

The Japanese Mespilus, which by the way is an old stand-by in our climate, has been cultivated here for over a century and is too well known to require any description. Since about ten or fifteen years the attention of our fruit growers and nurserymen had been called to the growing of Orange, Pear, Plum and Pecan trees, and the hardiest of all, the Japanese Mespilus, were neglected. By special arrangement with one of the best nurserymen we have been enabled to secure a lot of very fine branched trees, which we offer at 75c and \$1 each.

PEACH TREES.

We have a fine assortment of Southern grown Trees, selected from a very reliable Nursery. They consist of the following varieties, viz:



Kelsey's Japan Plum.

FREE STONES.

Jessie Kerr.
Amsden.
Alexander.
Early Louise.
Fleitas St. John.
Mountain Rose.
Honey.
Foster.
Crawford's Early.
Amelia.

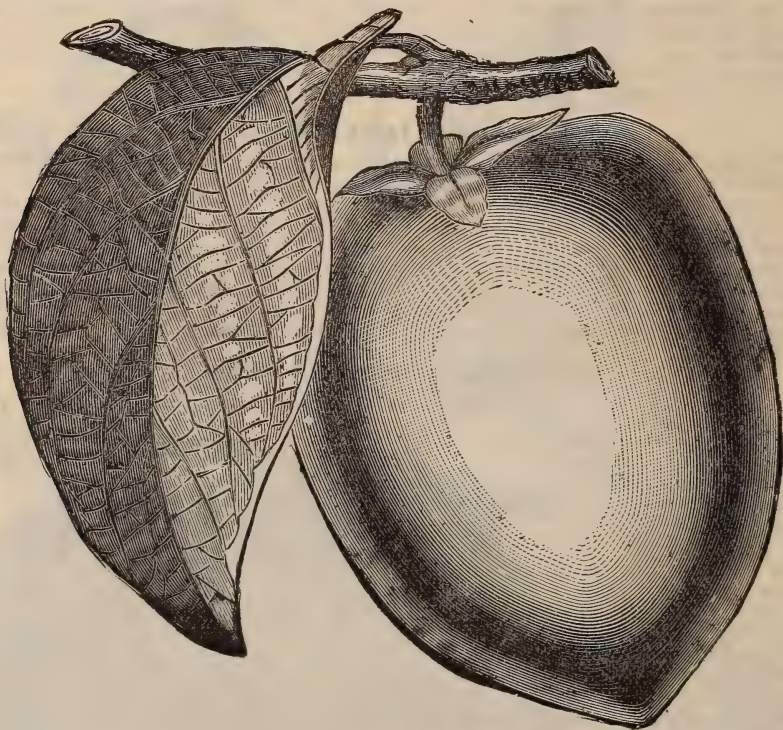
FREE STONES.

Slump the World.
Thurber.
Old Mixon.
Crawford's Late.
Smock.
Picquet's Late.
Lady Parham.

CLING STONES.

General Lee.
Stonewall Jackson.
Old Mixon.
Lemon.
Heath.
Nix White Late.
Stinson's October.
Butler.
Chinese.

As they follow in the list they ripen in succession.
 Price, 25 cents; \$2 per dozen; \$15 per hundred.



Japan Persimmon (Hachiya.)

GRAPE VINES.

Have some select varieties for the table, and for making wine. The following is a list of them, viz:

Moore's Early. Large size and very early; good for table use. price, 20c. each.

Delaware. Well known. Regarded as best American Grape; it does well in the South, with good soil and high culture. Price, 20c. each; \$2.00 per dozen.

Goethe. Light pink; very fine for table use. It is the best of the Roger's hybrids. Price, 20c. each; \$2.00 per dozen.

Triumph. This is a late variety, bunches very large, golden when fully ripe; fine as best foreign, and sells equally well; melt-

ing pulp, small seeds, vigorous as Concord, of which it is a hybrid seedling. Rarely it rots; stands pre-eminently at the head as a late table grape. Price, 20c. each.

Norton's Virginia. An unfailing never rotting, red wine grape of fine quality. Price, 20c. each; \$2.00 per dozen.

Cynthiane. Very much like the latter; same price.

Concord. Early; very popular, good for market. Some years it rots. 10c. each; \$1.00 per dozen.

Ives. Ripens with the Concord. Good for wine; vigorous and productive. 10c. each; \$1.00 per dozen.

Herbemont (McKee.) A most popular and successful red or purple grape in the South; excellent for table and wine. McKee is identical with it. Price, 20c.; \$2.00 per dozen.

Scuppernong Grapes. The Bronze Scuppernong Grapes are natives of the South and bear well here. In Mississippi, Alabama and Florida Scuppernong Grapes are

largely planted for preserving and wine making, they are excellent for the latter purpose and will make as good wine as Missouri. The vines should not be trimmed. 25c. each.

The Niagara Grape. The Niagara Grape is the best of the white varieties. The bunches are large, transparent white, very sweet and delicious in flavor. This is one of the best table Grapes, but will answer also for wine making. 20c. each.

JAPAN PERSIMMON.

This new valuable fruit has been fruited for the last few years. Most varieties are of excellent quality; twice and three times as large as the native kind; very attractive when the fruit is ripe. The fruit often weighs a pound, is very sweet and of a most delicious flavor. As they are of easy culture and do well here it is a profitable fruit to grow.

Assorted named varieties. Price, 30c. each; \$3.00 per dozen, large size.

CELESTE, OR CELESTIAL FIG.

We have a good supply of one year old trees of this variety; also three year old trees. They have been raised from cuttings in a sandy loam; are well rooted, and raised to a single stem; not in sprouts, as is often the case, when raised from suckers taken off from old trees.

The cultivation of this fruit has rather been neglected, which should not be so, as the fig is always a sure crop, with very little attention. It has commenced to be an article of commerce when preserved; shipped from here it sells quite readily North, put up in that way. The Celeste is the best for that purpose; not liable to sour like the yellow skinned varieties, and sweeter than other dark skinned kinds.

One year, Price, 25c. each; \$2.00 per dozen; packed and delivered on steamboat or railroad depot \$15.00 per 100; \$125.00 per 1000. We have a few hundred of extra size trees, which have been transplanted. Price, 30c. each. 3 year old, 40c. each; \$3.00 per dozen.

THE LEMON OR MAY FIG.

This is the earliest of all the Fig varieties, producing medium sized cream or lemon yellow fruit, which ripens as early as the beginning of May. The tree bears twice during the season, the second crop ripening only under extremely favorable conditions. The fruit is of a delightful flavor, juicy and very sweet, and is excellent for drying, canning or preserving. 30 cents each.

NEW WHITE ADRIATIC FIG.

This valuable variety has been introduced into this country from South Italy, where it is esteemed as the finest of all figs. The tree attains an enormous size and is an immense bearer, bearing more than any other variety known.

The fruit is of the finest quality; the skin is thin like paper, thinnest at the base, and not like most other figs, thicker at the point. The pulp is very sweet, with small seeds, without a hollow space in the center; in fact, the whole fruit is one solid pulp.

The size of the fruit is larger than the white Smyrna Fig and a great deal finer in flavor. It begins to ripen in July, and figs ripen from that time continually until frost. The principal crop is in August.

This variety is extensively grown in Italy for drying, and the finest dried figs of commerce are obtained from it. Since our climate is well adapted to its culture it will in time prove the most valuable of all Figs. Stock very limited.

Price, 40c. each; \$4.00 per dozen. Extra large size trees, 50c. each.

See New Fig in Novelty List.

CHERRY TREES.

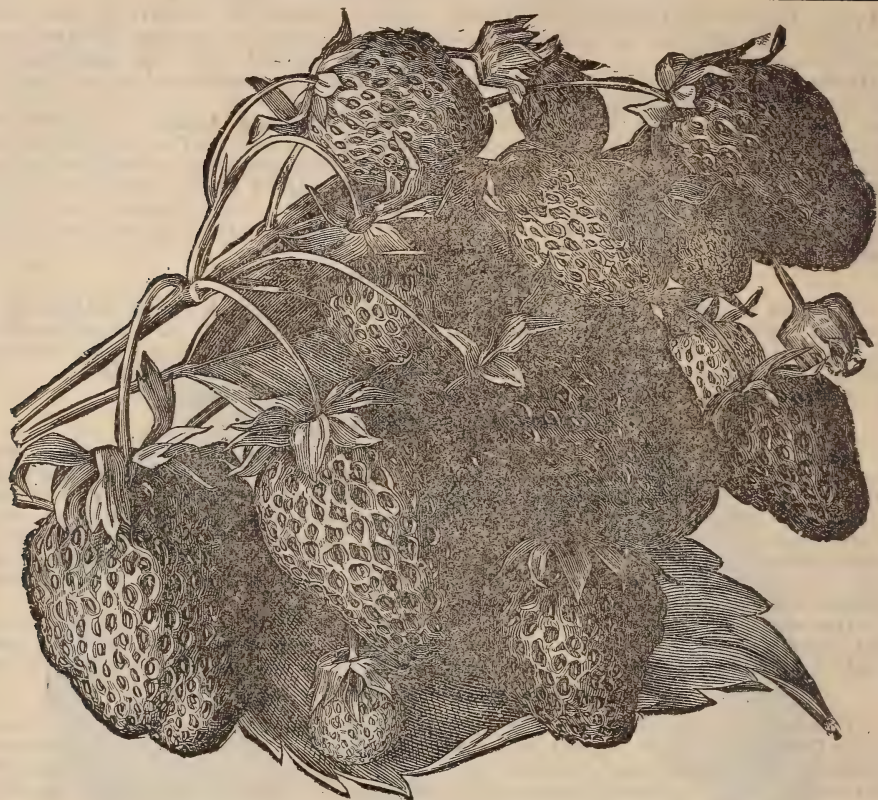
Cherry Trees, with few exceptions, will not do well in our Southern climate. There are some, however, which, if budded on hardy stools will do well here and bear fruit. Our wild Cherries, being the hardiest, answers best for stools, but the Marianna Plum will answer equally as well and is quite hardy. The trees we handle are the best for our climate and soil. 40c. each.

CHINA UMBRELLA TREE.

We have to offer a large lot of these shade trees, known to be well adapted for banquettes or yards. These trees have been transplanted.

Price, 50c. each; \$5.00 per dozen; \$35.00 per 100.

The Genuine China Umbrella Tree Seed, $\frac{1}{4}$ lb. 15c.; $\frac{1}{2}$ lb. 25c.; 1 lb. 50c.



Michel's Early Strawberry.

NEW POMEGRANATE "SPANISH RUBY."

This new variety of the well known Pomegranate is one of the most beautiful and finest of all fruits of our temperate climate. Fruit very large, as large as the largest apple; eye very small, skin thick and smooth, pale yellow with crimson cheek; meat of the most beautiful crimson color, highly aromatic and very sweet. The Spanish Ruby is a fine grower and good bearer, and the fruit is excellent for shipping, as it will keep for a long time.

It ripens shortly before Christmas and could be shipped to Northern cities, where during the holidays it would attract great attention. Price, 30c. each.

LARGE SWEET POMEGRANATE.

Same as above, except in color of seed and flavor. Price, 25 cents each; \$2.50 per dozen.

Our Pear Trees are Blight Proof.

Several years ago we sold to Messrs. Mastral & Dietrich of Slidell, La., an assortment of Pear trees, such as Garber's Hybrid, Le Conte, Kieffer, Bartlett, Duchesse D'Angoulême, Mikado and Chinese Sand King, all of which have done very well and are Blight Proof. We had some of the fruit on exhibition in our store, which was as fine as any Northern or California fruit. Where we got our fruit trees from, blight is not known. These gentlemen are our friends, and will be pleased to receive visits of any one desiring to start an orchard.

CAMPHOR TREE SEED.

Cinnamomum Camphora.

This beautiful tree should be cultivated in every locality where the thermometer does not fall below 10 degrees above zero, Fahrenheit, it is one of the most beautiful evergreens imaginable; attains a height of 50 feet, of an upright habit; forms a beautiful dense crown, it is entirely free from disease or insects; most valuable for its wood—from it is extracted the Camphor of commerce. It is of rapid growth and the most interesting of trees. The Seed, 10c. package; 40c. $\frac{1}{4}$ lb.

Prices of young trees \$1.00 to \$1.50 each.

MICHEL'S EARLY STRAWBERRY.

We have various sorts of soil in Louisiana, and the Strawberry suitable to and succeeding equally well in poor or rich land, can only be determined by practical experiment.

There are but few varieties which adapt themselves to all soils and latitudes, hence the importance of planting those which experienced fruit growers have tested and found profitable. A Strawberry having all the good qualities, has not, and perhaps never will be discovered; still in choosing, it is well to purchase plants having as many good points as possible. This we claim for the Michel's Early.

It is claimed to be the earliest in cultivation. It makes perfect flowers and fruit. Very prolific. Price, 60c. per 100; \$5.00 per 1000.

We consider this variety superior to the Sucker State, being earlier and more prolific. It will become the leading market sort, home and for shipping North. Have dropped the Sucker State from our list as the Michel's Early is superior and earlier.

See New Strawberry in Novelty List.

LOUISIANA SOFT SHELL PECANS.

This is a variety of nuts which only grows South, and is a sure crop here. Those who planted Orange trees twenty years ago, lost most of their labor in January, 1886, when seven-eighths of trees were killed by the severity of the weather. If Pecan trees had been planted instead, they would have brought a handsome income and continued to increase every year in their production, furnishing a never failing crop for a whole century.

Centennial. This is an extra large variety, long in shape and thin in shell.

Frotscher's Egg Shell. One of the thinnest shelled Pecans produced. It is of a very large size, roundish in shape and of fine flavor.

Rome. The "Rome" is the largest Pecan nut we ever saw, of fine quality, thin shell, good bearer; in shape it is round at one end, and pointed at the other, a very profitable variety.



Centennial Pecans.

We beg to refer to a letter from E. M. Hudson, Esq., to Mr. Richard Frotscher on this subject. The only way to be sure of the quality and early bearing is to plant budded or grafted trees.

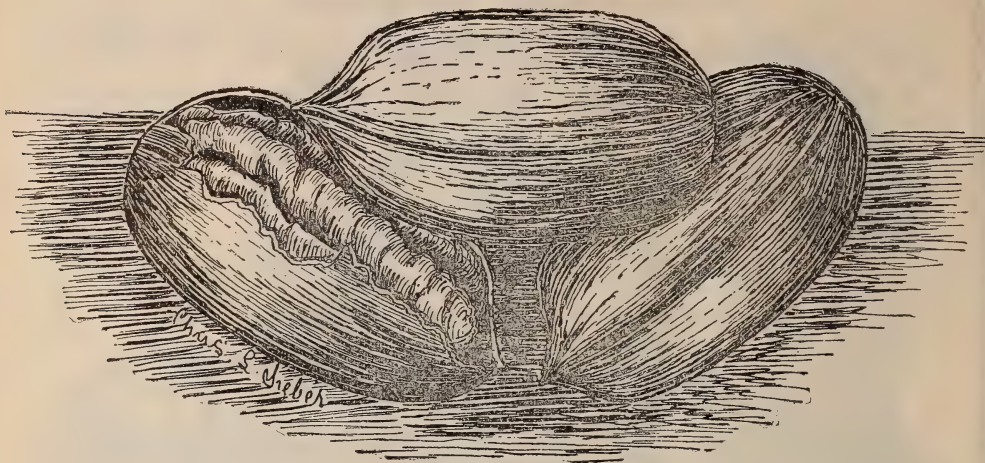
NEW ORLEANS, La., Nov. 1, 1895.

MR. RICHARD FROTSCHER, City:

Dear Sir—In reply to your inquiries with reference to pecan culture, I will submit the following, as embracing my personal experience as well as the conclusions derived from well-known scientific principles.

First. As to the relative merits or the demerits of transplanting pecan trees while young, I am free to say that I am convinced that transplanted trees will come into bearing earlier than those not

transplanted. Anyone familiar with the physical habits of growth of the pecan knows that, when not transplanted, it develops a marvelous tap-root, similar to that of the long-leaf pine. By cutting this tap-root, at time of transplanting, at the end of the first year's growth, the force, which would have been expended in the production of the tap-root, is utilized in the process of producing fibrous roots and additional top growth of tree. Consequently the tree, with fruit bearing buds, comes earlier into bearing than the non transplanted tree. The fibrous roots assimilate much more of



Rome Pecans.

plant food, merely hastening the growth above ground and at the same time, by that much earlier, bringing the bearing branches into a fruitful condition. The sole argument in favor of not transplanting consists in a fact that is undeniable, *i. e.*, that the non-transplanted tree, with its long, large, tap-root, is more able to stand the force of high winds and storms.

Second. What results are to be expected from planting the nuts of the best varieties of pecans in comparison with the budded trees? A single moment's reflection will suggest that nuts of the very finest varieties cannot be expected to reproduce themselves when planted. This for the very obvious reason that the very nuts in question have, in all probability, been cross-fertilized, or pollinated by some inferior tree in the vicinity. It may well happen that a few nuts on a fine tree may escape this hybridism; and, if so, these few nuts will furnish trees reproducing the quality of the original tree. But, if other pecan trees are in the vicinity of the fine tree, there is not one chance in a thousand that a nut will escape the fructification of the inferior tree. Even, if both trees be of equal quality, the hybrid from the two is vastly more likely to be of low than of good grade. I should not deem it safe to expect a reproduction of the fruit of a tree of a fine quality, if another pecan tree were growing within five miles of it. The pollen of the pecan, so light is it, can be wafted in a breeze of five miles an hour and retain its potency at the end of that voyage in the air. If this be correct, as it undoubtedly is, it will readily be perceived that no reliance whatever can be placed on the fruit from nuts, taken from the

best quality of pecan trees; for in all the pecan growing regions it is hardly possible to discover a tree of fine quality situated more than five miles from some other pecan tree. Hence, it follows that, if the best results are desired, we must resort to grafting or budding. Experience shows grafting not to be at all satisfactory. Budding, however, by annular process is simple and remarkably successful—simple when once it has been learned, but with all a method requiring experience and skill.

In my own pecan grove of something over 100 seedling trees, which have been twice transplanted all from the genuine nuts of the Centennial and Egg-Shell varieties, ranging from ten to fourteen years from the seed, a majority of which are in bearing more or less, I have a fair proportion of good nuts, as you personally know from samples sent you; but, in *not* a single instance have I had a nut of either variety equal to the parent nut. Consequently my later plantings have been of budded trees, which have all been transplanted. Of these I have the Centennial, Egg-Shell and Rome varieties, all still under bearing age.

I can but repeat what I told you verbally: That to expect good fruit from seedling trees, grown from the best nuts, is a delusion; and that to induce one to plant the finest nuts, with the expectation of a reproduction of the original, can only be characterized as proceeding from ignorance or want of good faith.

I think the above answers your question.

Yours truly,
E. M. HUDSON.

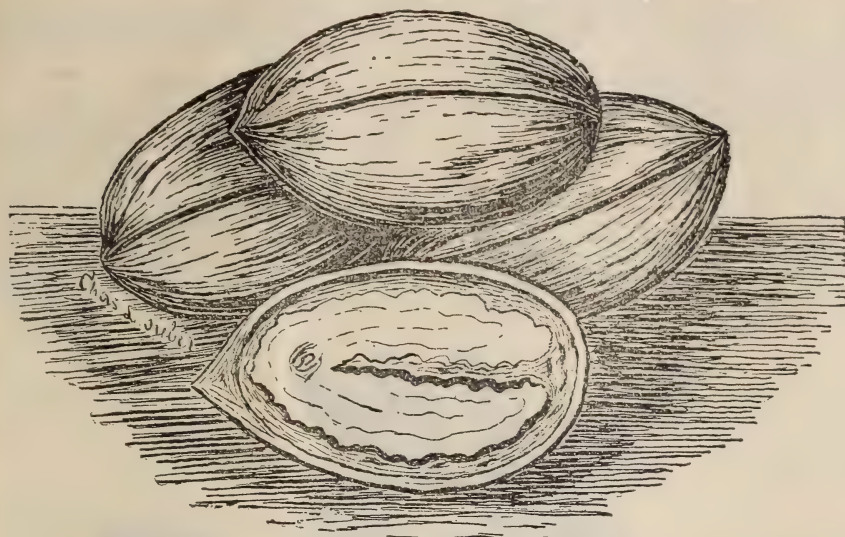
The following letter on Pecan Culture is written by Mr. William Nelson, and may be of importance to those contemplating the raising of this fruit:

MR. RICHARD FROTSCHER, New Orleans.

Dear Sir:—There being as you say "an evident desire among many here to learn something more about pecan growing with a view of planting," I send you my views on the subject. While not professing to be a teacher, I think, if you conclude to publish this in your "Garden Manual," it may be of interest to some who are about starting in the business; being only a plain statement of facts, without much speculation as to how profitable it may prove to those engaged in it.

It is surprising that this matter should have received so little attention up to this time, the demand for good nuts being practically unlimited.

The trees, as far as my observation goes, are subject to no disease, and have but few insect pests to contend with. They will grow in almost any soil, on high or low land, no cultivation, no draining, no pruning required. The reverse of all this is true of the orange; yet how many have spent much money in trying to establish orange groves, and so few to plant pecan trees. The returns from the first so uncertain, from the last absolutely sure. An orange grove in this State may be, and often is, killed out in one night by cold, while a pecan grove will continue to be profitable for years; for so long in fact, that it is not even remembered who planted it.



Frotscher's Egg Shell Pecans.

The pecan nut tree "*Carya Oliva Formis*," grows wild in many of the Southern States, and is said "to be indigenous along the Mississippi river as far north as Southern Iowa."

The bulk of the nuts on the market are from wild self-sown trees. Prices vary from 5c. to 50c. per pound, showing conclusively there is a great difference in quality. The rich, sweet, oily nuts of thin shell and large size are the best. I have some now before me, some small ones, $\frac{3}{8}$ of an inch long by $\frac{3}{8}$ of an inch in diameter, and others $1\frac{1}{2}$ inch in diameter by $2\frac{1}{2}$ inches long. These last are ten times the value of the first, because of superior quality, thin shell and large size. These nuts are all from self-sown trees. The yield from full grown trees varies from one to seven barrels, weighing about one hundred pounds per barrel.

In no other class of wild fruit or nut trees is there a greater chance for improvement, or rather so great an improvement so easily effected. We have only to select the best sorts nature has provided and bud or graft them on the common kinds.

The most successful method is by "annular budding." It may be done any time from the end of May up to the first part of August, varying as seasons and the localities differ, the earlier it can be done the better.

With a sharp budding knife make two cuts completely around the stock, about one inch apart, cut only through the bark, cut from the top circle to the lower one a straight cut down, now slip off from the stock this piece of bark which is to be used as a pattern, that is, place it around the scion (or piece of branch on which are the buds you wish to use,) covering a well developed eye; make the same cut as before on the scion, throw the first piece of bark away, fit the lost piece from the scion to its place on the stock, wrap firmly (leaving the eye uncovered) with wax cotton, bass, or like soft material. To have the buds fit well the scion should be as large or larger than the stock. If the operation is well done the buds will start in about fifteen days, when the buds have taken well take off the ties and cut back the stock to within six inches of the bud. When they have grown out a foot or more, cut back again to within a half inch of the bud. Thereafter allow nothing but the bud to grow. Pecan trees may be grafted in the ordinary way, but I have never succeeded in budding them by the common method.

Budding or grafting will cause the trees to come into bearing much earlier than from seed, to produce more regular and more abundant crops, besides perpetuating the improved kinds, which is the most important, as they do not always come true from seed.

Pecan seedlings should be transplanted soon after the leaves fall; it must be done before they start growing in the spring. As they grow to be large trees, they must be planted from fifty to seventy feet apart. Though on sandy poor land they may be planted closer. Keep down the weeds from around the young trees for the first year or two; afterwards they will take care of themselves.

In looking over my letter in your "Garden Manual," it struck me that I would like to say a few words more to those desirous of planting a grove of seedlings, if you think it worth while to make room for it. I wish to impress them with the importance of planting only the very best and finest nuts obtainable. To bear in mind the fact that the tendency of such seedling is not toward an improvement on, but towards a kind inferior to the parent tree. That some only, even of the best selected nuts, reproduce their kind. (It is said about sixty per cent. of the seedlings from good nuts produce good fruit.) That there is no way to select the best of such seedlings but by waiting until they fruit, which may be eight to fifteen years.

Now, as there are many advertisements of "Large Soft Shelled Pecans" for sale for seed, I would advise all buyers to be very particular as to the source from whence they get their nuts for planting, otherwise they will certainly be disappointed in results, and incur an irreparable loss of years of time.

The tendency of this tree to sport or produce varieties is amply proven by the numberless kinds we now have. I have never seen two trees in a grove produce nuts exactly alike in size, shape and quality. Where it is possible to get nuts from a tree growing at some distance from others (the further the better) such nuts would certainly be the best to plant. The chances that they would reproduce this kind are greater, because the pollen from other trees would not be so likely to reach it at the time of flowering. In this connection, and while I think of it, I certainly advise any one against buying seedling trees, unless from a re-

sponsible and reliable nurseryman. There are thousands of such trees being offered for sale, professedly grown from good pecans, but I know of barrels of almost worthless pecans to have been sown ostensibly to make stocks for budding, but doubtless many thousands of these will be sold to supply the demand for cheap trees. Far better to plant a nut of good quality which you can see before it goes into the ground, and wait one year longer, than to plant such trees, even if they cost nothing.

It is best to raise trees in nursery before planting in orchard. Plant the nuts in rows three or four feet apart, drop the nuts in the row, sow four inches from each other, cover two inches deep, and keep the ground clear of grass and weeds. The seed may be planted any time after the nuts ripen until growth starts in the spring. When two years old the seedlings may be easily and safely transplanted to the orchard.

In my opinion the transplanting of the trees while young is advantageous, inasmuch as it causes them to make a more spreading head, and to come earlier into bearing.

In adopting for propagation the three kinds which, on our joint investigation, we concluded to be the best, I have named them the "Frotscher," "Rome" and "Centennial." As you know, they are phenomenal in size, thin shell, of rich, sweet quality and finest flavor.

That you have made a long step toward improvement by selecting only such nuts as these for seed, cannot be disputed; but as they do not always come true from seed, perpetuating the good kinds can best be done by budding or grafting. This you know better than myself.

The good interest you take in introducing important kinds of seeds, trees, etc., the trouble and expense you have been at in this case, searching



Citrus Trifoliata.

for the very best pecans, deserves a greater reward than the mere money profit it may bring you, and will, I know, easily excuse the length of this communication.

Yours very respectfully,

WM. NELSON.

Grafted trees of the above three varieties can be had from us at the following prices:

Durrel's Paper Shell Pecan Trees, 3 to 5 feet, \$1.00; 7 to 8 feet, \$1.75.

CITRUS TRIFOLIATA.

As our Orange trees in Louisiana, when either on their own roots or grafted upon the sour stock, frequently during cold winters get killed down or suffer to such an extent that it takes several years for them to recover from the effects, it is essential for us to use for grafting or budding upon a stock which is sufficiently hardy enough to stand our most severe winters. Such a stock we find in the wild native Orange of Japan, the *Citrus trifoliata*.

With kind permission of Dr. G. Devron of this city, we copy the following article published by him in the *Southern Horticultural Journal*:

CITRUS TRIFOLIATA.

The "*Citrus trifoliata*," first described by Dr. E. Kœmpfer, in 1712, is the wild native Orange of Japan, and is the hardiest of the citrus family; it has stood the winters for several years, uninjured, of Washington City, D. C., without any protection, and also those of New York City, being merely sheltered from the north wind.

This pretty little tree has long been used in Japan as a stock to bud or graft upon other and more tender varieties of the orange family; it is also used there extensively to construct impenetrable hedges.

About the year 1831, Desfontaines, a French botanist, introduced that citrus, which he named "*Citrus triptera*," in France, and having found it perfectly hardy anywhere south of the city of Paris, he advised its propagation and use for hedges in southern France. For the last few years this new citrus has been found in the catalogues of our nurserymen, but has not been tried as much as it should have been. The *Citrus trifoliata*, when better known and oftener used as a hardy stock for the more valuable and more tender varieties of the orange, will extend the limited belt of successful and profitable orange culture.

Having been one of the first to cultivate the *Citrus trifoliata* in the open ground in the United States, and perhaps the first to see it bloom and produce fruit in this country, I must say that I know of no variety of the citrus family that can be more neglected, more exposed to extremes of temperature, or to excesses of moisture and dryness, with so much impunity. In seventeen years that I have had that citrus under observation, I never found an injurious insect on the tree, or its leaves, flowers or fruit.

The *Citrus trifoliata* used as a stock offers another advantage; the portions above the bud when removed are not lost; when treated as cuttings they readily strike roots and furnish new stock for the following year.

ORANGE TREES.

We have a large quantity of Satsuma Mandarin, Tangerine, Washington Navel, Sweet Creole, Brazil, and Jaffa, budded on either native sour or trifoliata stock. Healthy, thrifty trees. 60c., 75c., \$1.00 to \$2.00.

For north of New Orleans the "Satsuma" is the best adapted to be planted, as this variety can be grown one degree North above the Orange belt.

We should call attention of those intending to plant Orange trees, in order to be successful not to set out trees over three years old. A two year old tree on three year stock, will make larger growth in two years than if it had been five when planted out. These trees are carefully taken up and packed so as to insure safe delivery. The above prices are f. o. b. by express or freight. Special prices given on large quantities.

See Velvet Bean, in Specialties, for Fertilizing Groves and Orchards.

5 feet high and over, each,	\$2.00
3 to 5 feet high, 2 year buds, each,	1.50
2½ to 3 " 1 " "	1.00
1½ to 2½ " late " "	.75

10 per cent off these prices on orders for 50 or more. Special deductions on orders for 1000 or more. Prices to the trade on application.

We have also Centennial Nuts for seed at 75c. per lb.

The *Citrus trifoliata*, "Karataz-Banna," or "Gees," its Japanese name, was called by Kœmpfer, when he first saw it, in 1698, "*Aurantia trifolia sylvestris fructu tetrico*"; the fruit has an unpalatable pulp, but the rind or skin of the same is used as a component of a celebrated and popular remedy known in Japan as the Kikoku. The tree in Louisiana grows to the height of 10 to 12 feet, with numerous straight stout and very sharp thorns (a good substitute for our barbed wire), the leaves are trifoliate, the flowers are very large and have no odor, or if any, a very faint one, and its flowers appear a week or two before the new leaves, about the 17th to the 19th of March, say on St. Patrick's Day. This peculiar date and the trifoliate form of its leaves entitles that tree to the popular name of the "Shamrock Orange," which I have given it.

I have been told that this tree is an evergreen in Japan, but in my garden in this city it is always a deciduous tree, except seedlings of less than two years, which retain their leaves the first winter. The unpalatable but very pretty fruit is the size of a mandarin orange, and contains some thirty seeds, which on being immediately planted, reproduce the original plant, thus proving this tree to be a wild plant and neither a hybrid nor a sport from some other citrus. When the first blossoms of March do not produce much fruit, a second and third bloom occur in May or June, and yet all the fruits mature at the end of October. In November the leaves turn yellow and drop gradually, so that at the end of December none remain.

The deciduousness of the citrus increases its hardiness; being dormant in winter and the circulation of sap very limited, rupture of the cells and death to the plant by a freezing temperature is nearly impossible in any of our Southern States.

While any variety of the orange family will grow well on the *Citrus trifoliata*, I would advise the use of the Satsuma and other hardy varieties lately introduced from Japan for the colder portion of this new untamed orange belt.

The only objection that can be raised to the use of the *Citrus trifoliata* stock is, that it will produce smaller or dwarf trees. I do not consider this an objection but a quality; more trees can be planted in the same space, the fruit easier gathered, while trees can be better managed and will be less exposed to damage from storms, high winds or tornadoes.

G. DEVRON, M. D.

Referring to the above article we should mention that we have imported from Japan seed of the *Citrus trifoliata*, which we offer at \$1.00 per lb., 40c. per ¼ pound. Choice Trees, \$1.25 per 100; \$10.00 per 1000.

THE KIN-KAN or KUM-QUAT ORANGE

This fine Japanese variety of Oranges is one of the most ornamental of all varieties known. The plant is dwarfish, of dense growth, hardy in our section, and will stand our most severe winters. The fruit, unlike any other variety of Oranges, is small, oval in shape, with sour pulp and sweet, finely flavored skin, and should be eaten unpeeled, as the combination of sour pulp and sweet skin is most delightful and refreshing. The fruit may be preserved in several ways.

We have a fine lot of the above variety on trifoliata stools on hand, which we sell at from 75c. to \$1.00 each.



The Kin-Kan or Kum-Quat Orange.

THE MULBERRY TREE.

The Mulberry tree, with its delightful refreshing fruit, ought to be in every family garden wherever space permits. It is not only an excellent fruit tree but also a good shade tree, and above all very ornamental. We will have the best of the Black Ever-bearing varieties for our climate, as well as the White, the leaves of which are used in feeding silk worms, on hand during planting season and sell them at 30c. each.

—:O:—

THE JAPANESE MAMMOTH CHESTNUT.

Castanea vesca var. Japonica.

As our climate and soil seems to be well adapted for all varieties of Japanese Fruit Trees Mr. Frotscher imported seven years ago, for a trial, some seeds of the Japanese Mammoth Chestnut, which were planted here and came up readily. So far they have done exceedingly well.

There are several fine trees in this vicinity, grown from that seed, one of which bore several burrs for the first time three years ago and an abundant crop since every year, each burr containing two large and perfect nuts. The nuts are much larger than any of those imported from Italy or Spain, and equally as good and fine in flavor.

There is no doubt that the Chestnuts from Japan will bear well here and are especially adapted to our climate and soil. It is to be hoped that the culture of this valuable fruit will receive as much attention as has been paid to Pecan culture.

We have a limited supply of imported seed on hand. Price, 40c. per lb. Also trees at 75c. each.

—:O:—

JAPANESE WALNUTS.

Juglans Japonica Cordiformis.

Another variety of Japanese Fruit, the trees of which will bear here as well as the above mentioned Chestnut. There are several trees in Louisiana which were planted five years ago and are doing excellently well. One of them bore last year a number of fine nuts. The fruit is nearly the size of the English Walnut, heart-shaped, and, although hard shelled, is very easy to open.

The shell is composed of two halves and can be opened by inserting the point of a knife in the seam, and the kernel may be taken out whole. This nut is very sweet, of a finer flavor than the English Walnut and cannot be too highly recommended.

The seed which we offer is of our own importation. Price, 75c. per lb. Also trees at 75c. each.

THE CHAUTAUQUA CORN AND SEED PLANTER.

Unequalled in Simplicity, Durability and Efficiency.

THE BEST IS THE CHEAPEST. PERFECTLY SIMPLE. SIMPLY PERFECT.

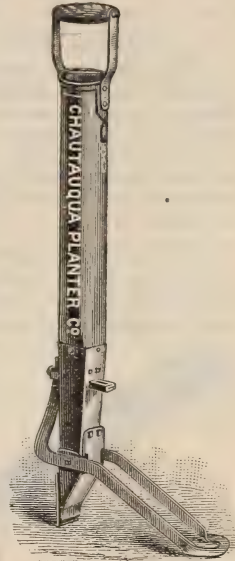
DIRECTIONS.

To set the seed cup.—Loosen the set screw and draw out the inside narrow gauge far enough to drop the desired number of seeds. Then tighten the screw. For ordinary planting, only the narrow gauge should be moved. In putting phosphate, or a large quantity of seed, both the narrow and wide gauges should be drawn out together. By taking out the screws, the gauges may be drawn entirely out.

In experienced or careful hands the machine will plant perfectly in any kind or condition of soil, mellow or soddy, wet or dry.

To operate the Planter.—Place the blades in the ground to the desired depth, in advance of you, having the "step" to the front as in the cut, without it touching the ground. Then pressing down forward on the handle, walk forward. The step will press on the ground and a charge taken for the next hill. After walking past the planter, still pressing on the handle, lift it from the ground to the place for the next hill; as this is done the charge of seed will be HEARD rattling down upon the steel blades and the operator will know the seed is ready for the next hill. Use the planter as you would a cane, or as much so as possible. The blades must always enter the ground closed, and come out open.

Its efficiency.—We claim that the "Chautauqua" is not equalled as a dropper and planter. By actual trial in the field with a number of good planters, it has been shown that our machine will cover the seed in different soils and at different depths, shallow or deep, better than any other planter. *Our new improved seed slide*, having double guager for adjusting the seed cup, enables the planter to drop accurately small or large seed, in the quantity desired. Price, \$2 00.



Patented April 4th, 1882.

MATTHEW'S HAND CULTIVATOR.

THE MATTHEW'S HAND CULTIVATOR is one of the best implements in use for weeding between row crops, and for flat cultivation generally, and is an indispensable companion to the seed drill.

It is thoroughly constructed throughout, very durable, easy to operate. *A boy can do as much with it as six men with hoes.* It spreads from 6 to 14 inches, and cuts all the ground covered, even when spread to its greatest extent. Its teeth are of a new and improved pattern and thoroughly pulverize and mellow the soil. The depth of cultivating may be accurately gauged by raising and lowering the wheels, which is quickly done by the use of a thumb screw.

"PLANET JR." IMPLEMENTS.

NOTE.—The prices on the Planet, Jr., implements are made by the manufacturers and no one is allowed to deviate from them.

It is compulsory that all parties handling these goods must abide by this rule or else they will lose all right to sell them.

PLANET, JR., SEED DRILLS.

THE "PLANET JR."

COMBINED DRILL, WHEEL HOE, CULTIVATOR, RAKE AND PLOW.

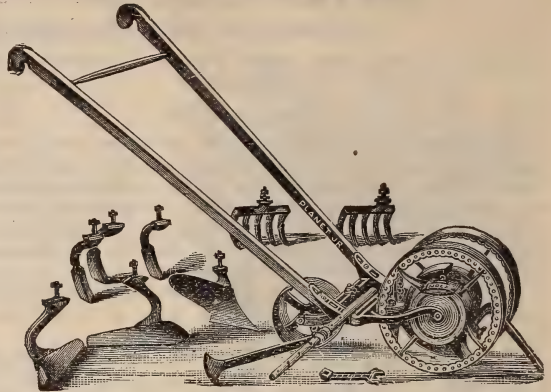
This machine is said to be one of the most complete garden tools in operation. The proprietors claim that every purchaser of one of these Drills will find it an excellent seed sower, a first-class double wheel hoe for use while plants are small, a first-class single wheel hoe, an excellent furrower, an admirable wheel cultivator, a capital garden rake, a rapid and efficient garden plow, and it is without an equal in variety of tools, easy adjustment, lightness, strength and beauty. It is a practicable every day time and labor saver, besides a remedy for back-ache. Price, \$9.00 net.

THE NEW "PLANET JR."**No. 3.****SINGLE WHEEL HILL DROPPING
GARDEN DRILL.**

A good Drill is one of the most important of all machines to the Market Gardener and is often invaluable to the farmer. It "pays at both ends;" it saves labor and seed in planting, work and worry in hoeing, and makes a larger and more even crop.

THE MANUFACTURERS SAY:

We manufacture a greater variety of Garden Seed Drills, with better designs and finer than any



other firm in the world, and we can guarantee purchasers entire satisfaction.

Until quite recently there was no such thing as a good Hill Dropping Seeder; the most modern drills sowing the seed in a continuous row only. But the demand for a perfect machine that can be adjusted to plant both in hills and drills is very large, and properly so. If seed is drilled, and the plants thinned, it is often hard to find strong plants at regular distances, even with thick sowing; but with hill planted crops less seed is required and you are almost sure to find two or three good plants at the exact spot

where one is wanted. Therefore all thinned crops should be planted in hills.

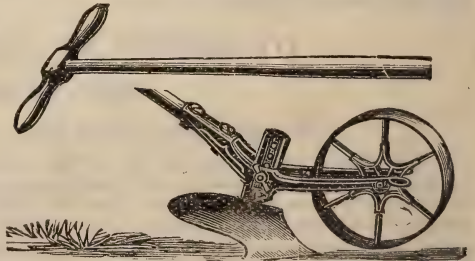
This wonderful Tool is offered for the second time in our catalogue, though not so new as to be in any way untried. We made a few dozen in the Spring of '95 and placed them in the hands of careful, practical market gardeners, truckers and seedmen, such as we knew were exceedingly critical and hard to satisfy, and whose tests would be the most varied and complete possible. They have been thoroughly tried therefore; in clay soils, sandy lands and in peaty marsh land, and in every instance reports are extremely flattering and gratifying. These trials, combined with the most exhaustive experiments of our own, have enabled us to perfect every detail, and to say without the slightest fear of contradiction that the tool has no equal.

What the Drill Will Do.

This Drill will sow a continuous row with greater regularity than any drill that we have ever made, but its distinctive feature is that it will also drop very neatly in hills. It opens the furrow, drops either in hills or drills at pleasure, covers, rolls down and marks the next row all at one operation. Price, \$9.00.

THE "FIRE FLY."**WHEEL GARDEN PLOW.**

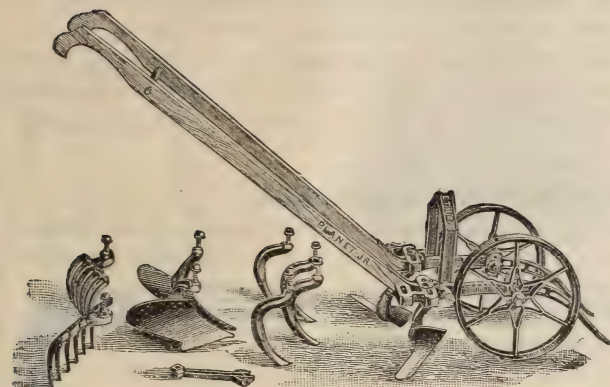
This tool is intended for those who have small gardens and a moderate amount of time to work in them. It enables them to raise vegetables for their family or for market, with a small expenditure of labor and time. Price, \$2.00 net.

**Fire Fly Wheel Garden Plow.**

"PLANET JR." WHEEL HOES.

The "Planet Jr." Double Wheel Hoe.

CULTIVATOR, RAKE AND PLOW COMBINED.

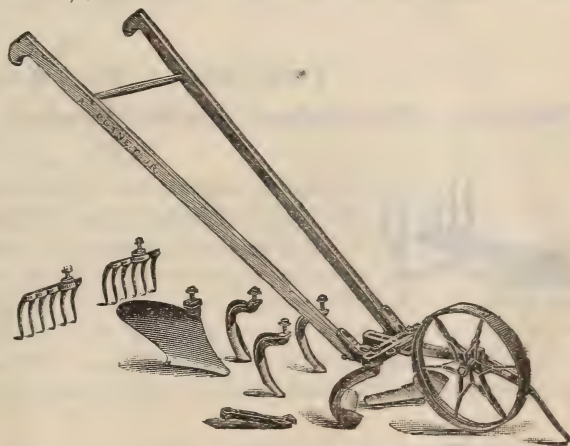


beets, carrots, peas and beans when already advanced in growth. Taking all in all, it is one of the best cultivators made. Price, \$6.00 net.

THE "PLANET JR."**SINGLE WHEEL HOE.**

CULTIVATOR, RAKE AND PLOW COMBINED.

This tool is considerably lighter than the "Double Wheel" Hoe; having almost similar attachments, it is capable of doing nearly the same kind of work: It is furnished with one pair of rakes, one pair of curved point hoes, three cultivator teeth, one large garden plow and one detachable leaf guard. All the blades are steel hardened in oil, tempered and polished. It is used for cultivating both sides of the row at one passage. Price, \$4 50 net.

**THE "FIRE FLY."**

SINGLE WHEEL HOE, CULTIVATOR AND PLOW COMBINED.

This implement is almost identical with the "Planet Jr." Single Wheel Hoe. The tools supplied with it are two curved point hoes, a set of three cultivating teeth and a large garden plow. The hoes work either to or from the row. The reversible cultivator teeth can be used for deep work in sets of two or three. The garden plow is valuable for furrowing, covering, hilling, etc.

Price, \$3.75.

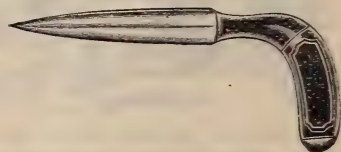


CLEVE'S ANGLE TROWEL.

This handy digger was originally intended for digging plantains and other weeds from lawns, its slim blade, made strong by its angular form, being suited for prying and twisting, but it has also found great favor among the ladies as a flower cultivator for loosening the soil in pots, and among young plants for transplanting. The blade and shank are one solid piece of best steel, set firmly in a nice handle. It serves every purpose of the old form of trowel. Price, No. 1, 35c; No. 2, 25c; No. 3, 20c.

IMPROVED PLANTING DIBBLE.

This tool is designed for setting out cabbage, celery, tobacco, tomato, onions and similar plants, and for small nursery stock, will commend itself to every gardener, florist, nurseryman and amateur. The price is low; it is made entirely of iron, but of a peculiar pattern which makes it strong and light and more durable than similar tools on the market. It is of convenient shape, neat and attractive in appearance. Price, 40c. each, if ordered by mail 20c. must be added for postage.



THE COMBINATION WEEDER.

The Latest! The Simplest! The Best Weeder! Equaled by None! Superior to All!



Combining as it does, both the rake and hoe, it is the most serviceable, durable and the most perfect Weeder on the market.

It is especially adapted to cutting Weeds and Grass, shallow cultivation and stirring of the soil of all Garden Crops, Flower Beds and Nursery stock, that require hand cultivation in the early stages of growth. It is neatly and strongly made of malleable iron and the blade of the best spring steel sharpened on both edges, which allows weeding close to the plants. The manufacturers guarantee every Weeder to give satisfaction to the purchaser or refund the price paid, 25c.



THE LEVIN PRUNER.

This is one of the strongest and best cutting pruners for its size. The cut is very smooth, very much more so compared to other pruners, and is faster than a knife.

It is a splendid and cheap instrument for trimming young trees, rose bushes, vines, etc. Any lady or child can use it and make a half or three-quarter inch cut according to size, without any strain or jar whatever. Give it a trial and be convinced of its good qualities.

Price, No. 1, 7 inches long, $\frac{1}{2}$ inch cut, \$1.00. No. 2, 7 inches long, $\frac{3}{4}$ inch cut, \$1.25. By mail, postpaid.

SELF CLOSING TOMATO VINE SUPPORT

PATENTED MAR. 13 TH 1894.



READY FOR USE



IN USE



NOT IN USE

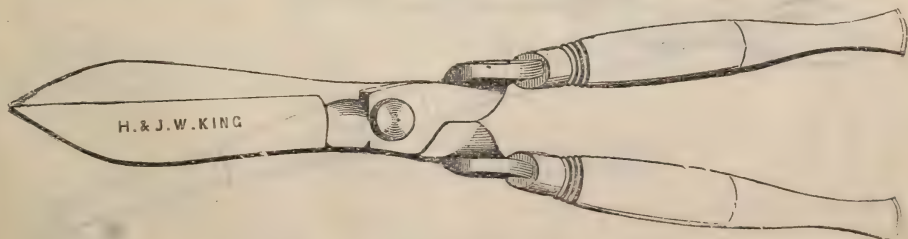
- I. It is made of galvanized wire, that will not rust or rot out.
- II. Any one can place it in position.
- III. It has double legs and the greater the pressure, the firmer the support.
- IV. It has self-closing, adjustable legs.
- V. It takes no room in the winter. Hang on a peg or leave in the ground, as you prefer.
- VI. It is always ready for use, never needing repairs.
- VII. By keeping the fruit from the ground they ripen earlier, and also give a yield that would otherwise decay.
- VIII. It adds to the appearance of any garden.
- IX. It requires no attention from time of setting until time of removal.
- X. It is a *time saver*—Don't have to hunt up slats, posts, strings, nails, hammer, etc.; anyone can set more in an hour than they can make in a day.
- XI. It is the simplest, strongest, most durable, easiest operated and *cheapest* support ever offered.
- XII. It pays for itself in a season, and lasts a generation. Price, 15c. each; \$12.50 per 100. Not less than 50 sold at this price.

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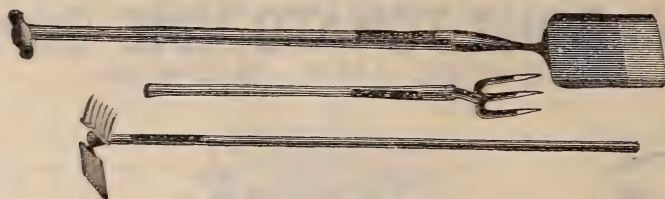
SELF-CLOSING ADJUSTABLE TOMATO SUPPORTS.

These are made on the same principle as the above; only they can be adjusted according to the height of the plant, either lower or higher, as required.

Price, 15c. each; \$12.50 per 100. Not less than 50 sold at this price.



Hedge Shear.



Ladies Set, Floral Tools, No. 5.



Boys' Favorite Set.



Weeding Hoe and Rake Combined.



Weiss' Hand Pruning Shear.



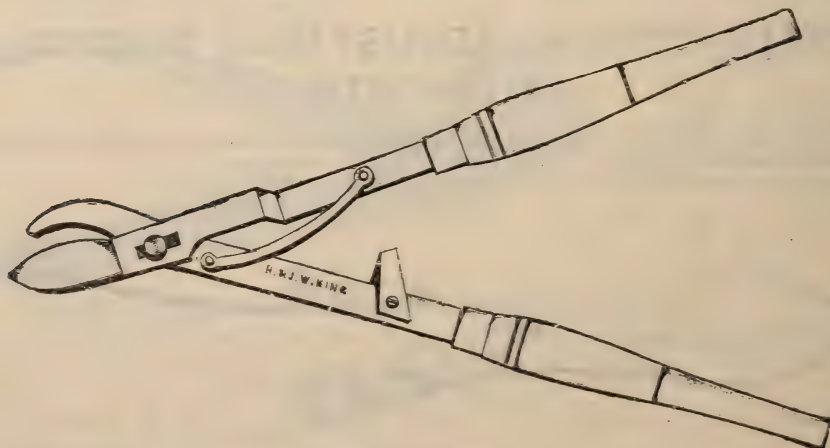
French Perfection Shear.]



Saynor's Pruning Knife No. 192.



Saynor's Pruning Knife No. 194.



Slide Pruning Shear.



Spading Fork, D. Handle.



Cast Steel Garden Trowel.



Excelsior Weeding Hoe.



Strawberry or Transplanting Fork.

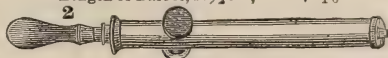
DEAKIN'S IMPROVED BRASS GARDEN SYRINGES.

AMERICAN.

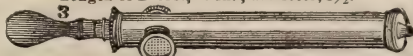
Length of Barrel 12 in., diam. 1 in.



No. A.—Length of barrel, 12 inches; diameter, 1 inch, with one stream and spray rose, Price, \$2.25.

Length of Barrel, $13\frac{1}{2}$ in.; diam. $1\frac{1}{8}$ in.

No. 2.—Ladies' Garden Syringe; length of barrel, $14\frac{1}{2}$ inches, diameter 15-16 inches; with one stream and two spray roses. The two roses, when not in use, are screwed on the side of the barrel, as shown in cut. Price, \$4.25.

Length of Barrel, 18 in.; diameter, $1\frac{1}{2}$ in.

No. 3.—Best Plate Valve Syringe, large size, with one stream, two spray roses and side pieces on barrel. Price, \$6.50.



No. 11.—(Second Quality.) Length of barrel, 18 inches; diameter $1\frac{1}{2}$ inches. Open Rose Syringe, full size. Two spray roses and one stream. Side attachments. Price, \$4.25.

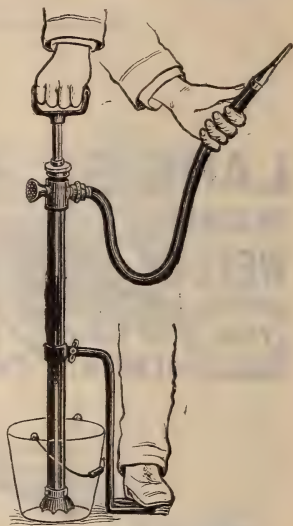
DEAKIN'S NEW SYRINGES.

The cheapest all brass syringes made; full length of barrel of the largest size, 18 inches; $1\frac{1}{2}$ inches diameter. The following is what the manufacturers say about them: "In response to the oft expressed desire of our customers for a very cheap brass syringe of large capacity of barrel, we have decided to place upon the market syringes which we feel confident will give satisfaction.

They are *all brass full length syringes*, fill quickly and discharge perfectly. Price, letter H, \$2.25.

" " K, 1 75.

The Deakin's Syringes are known to be the best manufactured in America, and are far superior to the imported.



The Acme Pump.

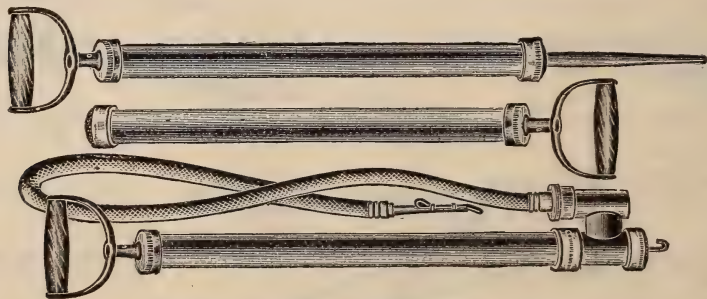
Wherever vermin and insect pests can be reached with the various solutions, the Acme will be found invaluable as an exterminator. For use in the Orchard, Green-house and Garden, it answers all requirements. The Acme is useful for Washing Carriages and handy in case of fire. The discharge end of the nozzle is so shaped that it can be used for Veterinary purposes. Price, \$3.75.

THE ACME HAND FORCE PUMP.

In the introduction of the new Acme Pump, the manufacturers have endeavored to present a cheap, durable and powerful Force Pump. With the exception of the Iron Base and two foot rubber hose it is made entirely of Brass and is very substantial.

Wherever vermin and insect pests can be reached with the various solutions, the Acme will be found invaluable as an exterminator. For use in the Orchard, Green-house and Garden, it answers all requirements. The Acme is useful for Washing Carriages and handy in case of fire. The discharge end of the nozzle is so shaped that it can be used for Veterinary purposes. Price, \$3.75.

LEWIS' COMBINATION FORCE PUMP.



This Pump is made of heavy mandrel drawn brass tubing, is 32 inches long and about $1\frac{3}{8}$ inches in diameter, weighing about $4\frac{1}{2}$ pounds. It is a combination of three very useful instruments or machines: A Force Pump, an Agricultural Syringe and a Veterinary Syringe or nozzle for a round and solid stream.

As a Force Pump, with its three feet of hose attached, it will throw a good sized stream of water from fifty to sixty feet. It is very useful for throwing liquids on fruit trees and for sprinkling lawns. It has a spray attachment, which, being attached to the nozzle, will produce a spray or solid stream instantly, merely by a simple movement of the thumb. The attachment is simple in construction, made of brass and cannot get out of order very easily.

The pump part unscrews near the base, opposite where the hose is attached and the perforated or syringe nozzle is screwed on in its place. This can be used for syringing small plants. Price, \$5.50 net.

THE "LITTLE GEM" SPRAYING PUMP.

This Pump is made entirely of brass. The working parts, discharge and connecting tubes plunger, rod and air chamber, so that all parts (except the rubber hose and valve packing) that come in contact with the liquid, are of brass, making it practical for using



of the pump complete is 4 pounds. When boxed ready for shipment, 7 pounds. The price, with both nozzles including an iron stirrup for holding it firmly in the pail with the foot, is \$4.50.

CHAMPION FORCE PUMP

A Portable Force Pump, which, combining as it does, the efficiency and durability of the higher priced pumps on the market, is offered at a price which places it within the reach of all.

Being made of brass, with white metal top and base, it will not rust or corrode. It is capable of throwing from 5 to 6 gallons per minute to a distance of 50 feet. For washing windows, carriages, verandas, etc., it has no equal.

By simply adjusting the Sprinkler which goes with each pump, it is adapted for spraying gardens, lawns, etc., also for throwing liquid solutions of all kinds to destroy noxious insects on plants, vines and small trees.

This pump is furnished with two feet of $\frac{1}{2}$ inch discharge hose, and a tin nozzle and sprayer. It has no suction hose, as the Pump sets in the water, thus securing perfect suction.

The weight, when boxed for shipment, is about 8 pounds. Price, \$4.00.

RUBBER PLANT AND FLOWER SPRINKLER.

Very handy for sprinkling tender plants, small seeds and cut flowers. These sprinklers are made in three different sizes:

8	oz. with hard Rubber nozzle	50c.
10	“ “ “	60c.
12	“ “ “	80c.

Scollays Plant Sprinkler. brnze nickel plated nozzle, 90c, Postage extra 15c.

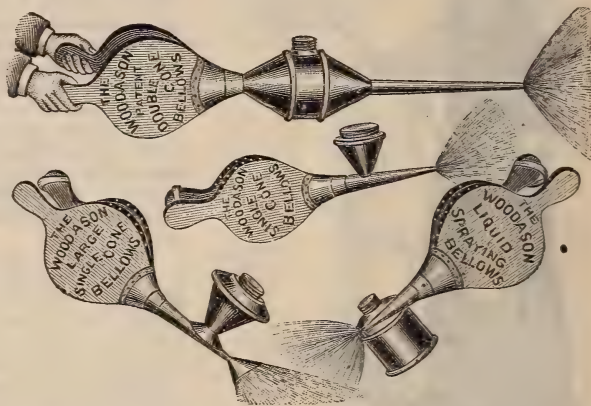


LEWIS' AGRICULTURAL SYRINGE.

This exterminator is 26 inches long, by 1½ inches in diameter. It is made of Zinc tubing which does not rust by using strong chemicals. The piston is fitted with Lewis' Patent Expansion Valve, which holds the liquid at any point in the tube, except on pressure of the handle, when it discharges the liquid on each hill. It is very simple and durable, also the cheapest syringe on the market. Price, \$1.25.

THE LENOX SPRAYER.

This sprayer is made similar in style as the Eureka, only it is made of zinc instead of copper, and is worked by pressing a rubber bulb which is attached to the end of the hose. It surely is very beneficial for spraying small plants, such as cabbage, potatoes, cauliflower, etc.; also for young trees, and grape vines, especially when using mixtures for insecticides, etc. This is the cheapest Knapsack Sprayer in the market; very durable, and will pay for itself in a short time. Has been lately improved by having an automatic Agitator placed inside. In walking this Agitator moves forward and backward, thereby thoroughly mixing the liquid used. Price, \$4.00 complete.



WOODASON'S BELLOWS.

Double Cone (for insect powder)	\$ 3 00
Single " " "	1 00
Atomizer (for liquid and powder)	2 00
Pure Pyrethrum Powder for above bellows. ¼ lb. box 15c.; ½ lb. 25c; 1 lb. boxes	50
Hammond's Bellows for Slug Shot	1 50

EUREKA EXTERMINATOR OR TORCH.

This is a very simple, durable, cheap and effective contrivance for destroying Caterpillars and all other insects which destroy the trees and other shrubs, also the foliage and the fruit. It is very easy to handle and should be used according to the following directions:

Place the Exterminator in a receptacle three inches in diameter and five inches high. Pour in enough Kerosene Oil to cover the body of the exterminator; let it soak for 10 or 20 minutes, then take it out and place it on a pole from 10 to 20 feet long. When you have this done you are ready to light it. The best time to destroy the Caterpillar is in the morning before the dew is off the trees and just at twilight. The best way to put out the flames is to smother. There is nothing about this that can melt or burn up, consequently it is almost indestructible. Price, 50c. each.

HAMMOND'S SLUG SHOT.



Hammond's Slug-Shot.

An excellent article for destroying cabbage fleas, green lice, turnip and beet fly, potato bug, grub worms, etc. It is ready for use, and only requires to be dusted on to the plants while they are wet with the dew in the morning, or when applied in the evening, plants should be watered over the

leaves half an hour before the Slug Shot is applied.

Five lb. packages, 30c.; in bulk \$4.00 per 100 lbs.

Have Dusters for distributing the above powder. Price, 1 gallon size, 35c.; half gallon size, 25c

WHALE OIL SOAP.

Very effective for washing trees and destroying all insects on the bark; it is also an exterminator of insects and lice on plants and shrubbery. Mix at the rate of one pound of soap to two quarts of hot water, and then add five gallons of cold water; apply with watering pot or syringe; used in this manner it will promptly rid cabbage or any other vegetable plants, also rose bushes and all sorts of fruit trees of the aphides and other insects which so often injure them. Price, 1 lb. boxes 15c.

The following Mixture has been found to be very effective in destroying all parasites and insects on fruit trees:

Japanese Insecticide see Novelty List.

KEROSENE EMULSION.

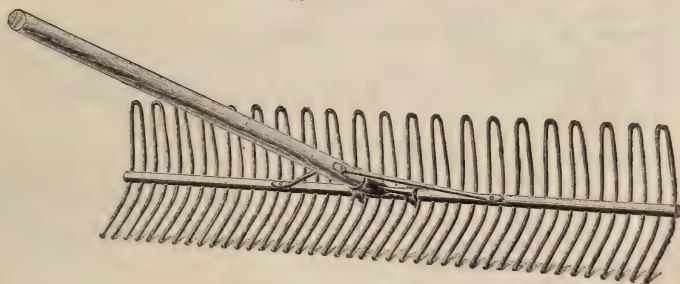
This solution is used with great success in killing all sucking insects, such as scales, plant lice, and above all the destructive Icterya or Cottony Cushon Bug, on orange and other fruit trees.

The following formula will be found one of the best:

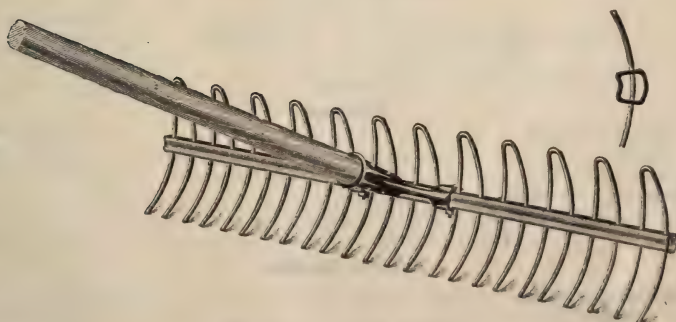
Dissolve $\frac{1}{2}$ lb. of Whale Oil Soap in $\frac{1}{2}$ gallon of boiling water, then add 1 gallon of Kerosene Oil, churn the mixture with a force pump till it forms a cream which thickens upon cooling. For scale insects dilute one part of the emulsion with nine parts of water, and for all other insects one part of the emulsion with fifteen parts of water. This mixture can be very easily made by any person using the above ingredients.

PRICE LIST OF GARDEN IMPLEMENTS.

LAWN QUEEN RAKE.



No. 1, . . . 80 cents.



No. 2, . . . 60 cents.

These are splendid tools, and have given general satisfaction.

Long Handled,	4	tine (Goose Necked) Geneva	40
"	"	6 tine	65
"	"	4 tine (flat)	45
"	"	4 tine (round)	40
"	"	4 tine, extra heavy	55

SHEARS—CONTINUED.

Pruning Shears, No. 4, Wiss. A	1 40
“ “ No. 2, Wiss. B	1 65
“ “ No. 3, “	1 50
“ “ No. 109, Wiss. B, Steel Springs, 9 inch	2 00
“ “ No. 110, “ “ “ 10 inch	2 25
“ “ No. 111, “ “ “ 11 inch	2 50
Wiss. Practical Orange Clippers	1 00
“ Orange Shears	90
Pruning Shears, Hessenbruch (German) No. 565—28c—m	1 00
Ladies' Favorite for Roses, No. 37—14c—m	1 00
“ “ “ “ No. 8—20½c—m	75
“ “ “ “ No. 8—23½c—m	1 00
“ “ “ “ No. 1—22c—m	75
“ “ “ “ No. 1—24c—m	1 00
Pruning Shears, French Perfection, No. 1	2 75
“ “ “ “ No. 2	2 50
“ “ Extra Heavy French, (Pat. Brass Spring) Nos. 1 and 2	3 00
“ “ Heavy French, (Faber) No. 2	2 75
Slide Pruning Shear, No. 1, Saynor & Cooke	2 50
“ “ “ “ No. 2, “ “	2 75
“ “ “ “ No. 3, “ “	3 25
“ “ “ “ No. 4, “ “	3 75
Lopping Shears, Eagle Claw, English, No. 1	2 75
“ “ “ “ No. 2	3 00
Eagle Pruning Shears, (American)	2 50
Waters' Improved Tree Pruners, 4 feet	75
“ “ “ “ 8 feet	1 00
Waters' Improved Tree Pruners, 10 feet	1 25
“ “ “ “ 12 feet	1 50

Scythes.

French First Quality (polished) 18 inches	75
“ “ “ “ 20 “	80
“ “ “ “ 22 “	85
“ “ “ “ 24 “	90
“ “ “ “ 26 “	1 00
“ “ “ “ 28 “	1 10
“ Second “ (blue) 22 “	75
“ “ “ “ 24 “	80
“ “ “ “ 26 “	90
“ “ “ “ 28 “	1 00
French (Croix brand) 22 inches	70
“ “ “ “ 24 “	75
“ “ “ “ 26 “	80
“ “ “ “ 28 “	90

Have also the above blades brldled at 40c. extra each.

American Grass, 26 to 28 inches	75
American Bramble, 16 to 20 inches	60
Blood's Champion Bramble, 26 to 30 inches	75

The French Scythe Blades are imported by us, and are of best quality; none better can be had.

Watering Pots.

4 Quarts, Japanned, Screw Tops	35
6 “ “ “ “	40
8 “ “ “ “	50
10 “ “ “ “	65
12 “ “ “ “	75
16 “ “ “ “	90
Extra Heavy (hand made) No. 1, 20 Quarts	2 00
“ “ “ “ No. 2, 16 “	1 75
“ “ “ “ No. 3, 14 “	1 50

WATERING POTS—Continued.

Extra Heavy (hand made) No. 4, 10	1 25
“ “ “ No. 5, 8	1 00

The latter are made of the best material, and have very fine rose heads; they are made by a mechanic who has been furnishing the vegetable gardeners for years with these pots, and has improved upon them until they are perfect for the purpose.

Miscellaneous.

The Perfection Broadcast Hand Seed Sower (Everetts)	2 25
Exceleior Weeding Hooks	10
American Transplanting Trowels, 5, 6 and 7 inches	10c. to 15
Diston's Transplanting Trowels (solid shanks) 6 inch 40c.; 7 inch	45
Transplanting Forks (steel) No. 22	35
“ “ (malleable iron) No. 21	15
American Briar Hooks	1 10
Lang's Hand Weeder	25
Fork Handles	15
Hoe Handles	10c. and 20
Rake Handles	15
Spade and Shovel Handles	20
Edging Knives for trimming grass borders	35 to 50
Diston's 10 inch Flat Files	25
“ 12 “	35
Grafting Wax (Lion Brand) Best Quality	per lb. 40c.; per ¼ lb, 15
American Indian Pond Whetstones	10
American Berea Whetstones	15
French Whetstones	15
Rammer and Anvil for beating French Scythes	1 50
Raffia, (for tying)	per ¼ lb. 10c.; per lb. 30

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JERUSALEM ARTICHOKE.

This tuber is well known, and requires no further description. It is used for the table also for stock feed. It does better in a rich loam, should be planted and cultivated like potatoes. They yield very heavily. Price per bush. \$2.50, per gal. 35.

SPANISH PEANUTS.

An early and very prolific variety, which grows erect and does not spread on the ground like other kinds. Can be cultivated entirely with a plow and are easily gathered as all the peas hang close to the roots. The stems when harvested make a good hay. The fruit is smaller than the Virginia or Tennessee, but the plants yield heavier. A very good feed for fattening hogs.

Price, per lb., 15c.; by mail, postpaid, 25c.; per peck, 65c.

Have also the White Virginia and Red Tennessee Peanuts in stock. They are larger in size than the Spanish kinds. They are of a spreading habit, and are cultivated in ridges like sweet potatoes.

Price of White Virginia is 10c. per pound.

Price of Red Tennessee is 10c. per pound; if by mail, 8c. extra must be added.

COTTON SEED.

We have in stock the largest supply of the following varieties of choice Georgia Cotton Seeds. Special prices on large quantities.

Petit Gulf	\$0.75	per bushel of 30 pounds.
Peterkin	1.25	“ 30 “
Bancroft's Herlong	1.25	“ 30 “
Allen, Long Staple	1.50	“ 30 “
Boyd's Prolific	2.00	“ 30 “
Peerless	2 00	“ 30 “
Sea Island	2.50	“ 40 “

PETERKIN COTTON SEED.

This is one of the best kind to plant in the extreme Southern States; it is very prolific and harder than most other varieties. The staple is good. It gives more lint to a given weight than any other variety.

The King Cotton.

The King Cotton originated with Mr. T. J. King, Louisburg, N. C. It is the earliest and most prolific ever grown here. The seed is small and the boll medium. At the Mississippi A. and M. College Experiment Station the largest yield of seed cotton per acre was from King's. Thirty-seven varieties were sown. See 8th annual report.

Price per bushel \$1.25.

EXTRA CLEANED BIRD SEED.

We make a specialty to put up choice re-cleaned bird seed in cartoons holding one pound. These cartoons contain a mixture of

**SICILY CANARY, HEMP, GERMAN RAPE,
AND GERMAN MILLET.**

all re-cleaned and of best quality.

Have also plain Canary put up in same way, one pound cartoons; this is of the very best quality and also re-cleaned. Price, 10c. per cartoon; 3 cartoons, 25c.

Have also in bulk, the above as well as Hemp, Rape and Millet.

Cuttle Fish bone. 5c. a piece; 50c. a pound.

Steckler's Prepared Food, For Mocking Birds, Thrushes, Nightingales, Robins, Starlings, Sky Larks, and all soft billed birds. Price per box, 30c.

Bird Gravel. Small sized box, 5c., large sized box, 10c.

PRATT'S POULTRY FOOD.

This Egg producer is too well known to make any comment on same; it makes larger fowls, quickens the growth of young chicks, prevents and cures all poultry diseases. The manufacturer claims it to be a sure cure for Chicken Cholera, Rous, Gapes and all diseases that poultry are subject to. Price per packet 26 oz. 25c.

Coarse Ground Bone. Splendid for Poultry, 5c. per lb.; \$2.50 per 100 lbs. •

**CHUFAS.**

This nut is splendid for fattening hogs; it has a fine flavor. The nut sends up a single spire so much like Coco, it might deceive even an experienced eye at first appearance. Around this spire a multitude of others form rapidly. At the foot of each spire is a nut, never more than two inches in the ground. When harvesting the crop, you have only to gather all the spires and give a slight pull which will bring the entire cluster up with nine-tenths of the nuts. Unlike the Coco, the Chufa will die out in two or three years, if neglected or allowed to be choked with grass or weeds. Price, 15c. per pound; \$1.25 per peck; \$4 per bushel.

TOBACCO DUST.

We have a large supply of this well known insecticide, which is one of the best and cheapest insect destroyers known. It is one of the most effective agents against the cabbage-fly and worms, which are so injurious and destructive to Cabbage and Cauliflower plants; also for Cucumbers and Melons.

Used very extensively by the largest Cucumber growers in this vicinity with satisfactory results. It is generally put on plants in the morning when the dew is on them or just after a rain. After a few applications it has been found to be very effective. Price, 10 lb. packages, 25c.; 50 lbs. 75c.; 100 lbs. \$1.25. Special Prices on larger quantities.

PLANTERS' AND GARDENERS' PRICE LIST.

COST OF MAILING SEED.

Orders for ounces and ten cent papers are mailed free of postage, except **Beans**, **Peas** and **Corn**. See page 4 in regard to seeds by mail. On orders by the pound and quart an advance of eight cents per pound and **fifteen cents per quart must be added to quotations for postage.**

SPECIAL DISCOUNT.

On all orders amounting to \$5.00 and over, 10 per cent. discount.

For larger quantities, special prices will be given on application.

The above discount is on all seeds except **Potatoes**, **Onion Sets**, **Shallots**, **Grass** and **Field Seeds**, also **Plants** which are net cash.

CHEAP SEED.

While we claim to sell good Seed as low as any one in the business, we do not want a reputation for cheap seed, which in fact is only another name for a mixed, low grade, or worthless article. Many complaints reach us, from time to time, of great loss to gardeners here from purchasing from establishments advertising cheap seed. It is poor economy to try to save a few cents on seed, when we bear in mind that the cost of the seed is a small matter in the total cost of the crop. If we do not start with a pure seed, true to name and kind, of good vitality, it is self-evident we cannot make a good crop, no matter how lavish we may be after planting in fertilizing and cultivating.

We are in the business to stay and will not risk the loss of our reputation to gain a few extra dollars now.

VARIETIES.

PRICES.

ARTICHOKE.

Large Green Globe (Loan) \$0 50

Artichoke plants per 100 \$1.25, per 1000 \$10.50.

ASPARAGUS.

Conover's Colossal 10

Palmetto 10

Mammoth 10

Carries Rust proof 2 Bush

Roots 2 years old of either kind \$0 60

BEANS—Dwarf, Snap or Bush.

Extra Early Refugee \$0 15

Pride of Newton 20

Early Mohawk Six Weeks 15

Early Yellow Six Weeks 15

Thorburn's Prolific Market 20

White Kidney 15

Red Kidney 15

Best of All 15

Improved Valentine 15

Improved Dwarf German Wax (stringless) 20

Grenell's Improved Dwarf Golden Wax 20

Wardwell's Dwarf Kidney Wax 20

Dwarf Flageolet or Perfection Wax 20

Dwarf Butter Wax (Bismarck) 25

Detroit Rust Proof Wax 25

Keeney's Rustless Golden Wax 25

Henderson's Bush Lima 25

Burpee's Bush Lima 30

Thorburn's Valentine Wax Beans 30

BEANS—Pole or Running.

Large Lima 25

Carolina or Sewee 25

Southern Willow-Leaved Sewee or Butter 30

Dutch Case Knife 30

Southern Prolific 25

Crease Back 25

Lazy Wife's 30

Golden Wax Flageolet 30

Early Golden Cluster Wax 40

BEANS—English.

Broad Windsor 15

Per ounce Per 1/4 lb. Per lb.
\$0 50 \$1 75 \$5 00

10 20 50

10 25 75

10 30 80

Per 100 Per 1000

\$0 60 5 50

Per quart. Per peck. Per bush'l

\$0 15 \$1 00 3 25

20 1 00 3 50

15 90 2 75

15 90 3 00

20 1 50 4 50

15 1 00 3 25

15 1 00 3 25

15 80 2 75

15 90 2 75

20 1 00 3 50

20 1 00 3 50

20 1 00 3 50

20 1 00 4 00

25 1 25 5 50

25 1 50 5 50

25 1 50 6 00

25 1 50 4 50

30 2 00 6 00

30 2 00 6 50

25 2 00 6 25

25 2 00 6 00

30 2 00 6 00

30 1 50 5 75

25 1 75 5 75

25 1 75 5 75

30 2 00 6 00

30 2 00 6 00

40 2 75 7 50

Per quart. 15 1 00 3 00

By mail, add 15c. per quart for postage.

VARIETIES.

PRICES.

	Per ounce	Per ¼ lb.	Per lb.
BEET.			
Extra Early or Bassano	5	15	40
Dewing's Early Red Turnip	5	15	40
Early Blood Turnip	5	15	40
Long Blood	5	15	40
Half Long Blood	5	15	45
Edmond's Early Blood Turnip	10	15	45
Crosby's Egyptian Turnip	10	20	50
Egyptian Red Turnip	10	20	45
Eclipse	10	20	40
Lentz	10	20	45
Long Red Mangel Wurzel	5	15	35
White French or Sugar	10	15	40
Silver or Swiss Chard	10	20	50
BORECOLE or CURLED KALE.			
Dwarf German Greens	15	35	1 00
BROCCOLI. Purple Cape	30	1 00	3 50
BRUSSELS SPROUTS	15	50	1 50
CABBAGE.			
Early York	20	50	1 50
Early Large York	20	50	1 50
Early Large Oxheart	20	50	1 50
Early Winningstadt	20	50	1 50
Jersey Wakefield	20	65	2 00
Early Flat Dutch	20	50	1 50
Early Drumhead	20	50	1 50
Stein's Early Large Flat Dutch (very fine)	20	65	2 00
Solid South	25	65	2 00
Succession, Henderson's true	20	65	2 50
Large Flat Brunswick, German imported	25	65	2 00
Improved Large Late Drumhead	25	65	2 00
Superior Large Late Flat Dutch, Frotscher's	25	65	2 00
Crescent City Large Late Flat Dutch	25	65	2 00
Improved Early Summer, Henderson's	25	65	2 50
Red Dutch (for pickling)	20	50	1 75
Green Globe Savoy	20	50	1 75
Early Dwarf Savoy	20	50	2 00
Drumhead Savoy	20	50	1 75
St. Denis or Chou Bonneuil	20	75	2 00
CAULIFLOWER.			
Extra Early Paris	75	2 25	9 00
Half Early Paris	75	2 25	8 00
Early Erfurt	75	2 50	9 50
Early Snowball, Henderson's True	2 00	6 00	20 00
Le Normand Short Stemmed	75	2 50	9 00
Early Italian Giant	90	2 50	11 00
Late Italian Giant	90	2 50	11 00
Large Algiers, fine	90	2 50	11 00
CARROTS.			
Early Scarlet Horn	10	25	70
Half Long Scarlet French	10	25	70
Half Long Luc	10	25	70
Improved Long Orange	10	25	60
Long Red, without core	10	25	60
St. Valerie	10	25	70
Danver's Intermediate	10	25	60
Chantenay Half Long	10	25	70
CELERY.			
Large White Solid (finest American)	20	55	1 75
Perfection Heartwell, very fine	20	75	2 50
Dwarf Large Ribbed	20	60	2 00
Golden Self-Blanching	30	90	3 00
Giant Pascal	20	65	2 00
Celeriac or Turnip-Rooted	20	50	1 50
Cutting or Soup	10	30	1 00

VARIETIES.

PRICES.

	Per ounce	Per $\frac{1}{4}$ lb.	Per lb.
CHERVIL.			
Plain-Leaved	\$0 15	40	1 40
COLLARDS	10	30	1 00
CORN SALAD	15	40	1 00
CORN.	Per quart.	Per peck	Per bush'l
Extra Early Dwarf Sugar	20	\$1 00	2 75
Adam's Extra Early	20	75	2 25
Adam's Early Large	20	75	2 50
Early Sugar or Sweet	20	75	2 50
Stowell's Evergreen Sugar	20	75	2 50
Golden Beauty	15	50	1 50
Champion White Pearl	15	50	1 50
Golden Dent Gourd Seed	15	50	1 50
Early Yellow Canada	15	50	1 50
Large White Flint	15	50	1 50
Blunt's Prolific, Field	15	50	1 50
Improved Leaming	15	50	1 50
Mosby's Prolific	15	50	1 50
Hickory King, white	15	50	1 50
White Rockdale	15	50	1 50
Yellow Creole Corn	15	50	1 50
N. B.—Prices for larger quantities given on application.			
CRESS.	Per ounce	Per $\frac{1}{4}$ lb.	Per lb.
Curled or Pepper Grass	10	35	\$1 00
Broad-leaved, grey seeded	15	50	2 00
Water Cress, True	50	1 50	5 00
CUCUMBER.			
Improved Early White Spine	10	20	40
New Orleans Market, Frottscher's original Stock	15	30	65
Early Frame	10	20	50
Long Green Turkey	10	25	70
Early Cluster	10	15	40
Gherkin, or Burr, for pickling	20	50	1 50
EGGPLANT.			
Large Purple, or New Orleans Market, True	30	1 00	3 25
Early Dwarf Oval	30	1 00	3 25
New York Market	25	1 80	2 80
ENDIVE.			
Green Curled	15	50	1 50
Extra Fine Curled	20	65	2 00
Broad-leaved, or Escarolle	15	50	1 50
GARLIC. 20c qt. 75c gal.			
KOHLRABI. Early White Vienna, finest	25	75	2 50
LEEK.			
Large London Flag, American grown	20	50	1 40
Large Carentan	25	60	2 00
LETTUCE.			
Early Cabbage or White Butter	10	30	1 00
Improved Royal Cabbage	15	40	1 25
Brown Dutch	15	50	1 50
Drumhead Cabbage	15	40	1 25
White Paris Coss	20	50	1 50
Perpignan	20	50	1 50
New Orleans Improved Large Passion, True strain	15	50	1 50
Trocadero	20	50	1 50
MELON, MUSK or CANTELOUPE.			
Netted Nutmeg	10	20	70
Netted Citron	10	20	65
Pine Apple	10	20	65
Early White Japan	10	20	65
Persian or Cassaba	10	20	65
New Orleans Market, True	10	25	65
Osage	10	20	60
Early Hackensack	10	20	60

Rockyford 12#
Carionball 1#

VARIETIES.

PRICES.

MELONS, MUSK or CANTELOUPE—CONT'D.

	Per ounce	Per 1/4 lb.	Per lb.
Emerald Gem	10	\$0 20	\$0 60
Long Island Beauty	15	25	75

MELON, WATER.

Southern grown, Sup. Quality.	Ice Cream, White Seeded	10	20	60
	Rattlesnake, true	10	15	50
	Pride of Georgia	10	15	50
	Mammoth Iron-Clad	10	15	50
	Kolb Gem	10	15	50
	Florida's Favorite	10	20	50
	Seminole	10	20	50
	Lone Star, true strain	20	40	1 00
	Duke Jones	10	15	50

MUSTARD.

Large Curled	10	20	50
Chinese Large Leaved	10	25	60
White or Yellow Seeded	5	10	30

NASTURTIUM.

Tall	15	30	1 00
Dwarf	15	30	1 00

OKRA.

Green Tall Growing	10	15	40
Extra Early Dwarf Green Prolific	10	15	40
White Velvet	10	20	40

ONION CREOLE. Prices on application.

ITALIAN ONION.

New Queen	25	75	2 50
Bermuda (true) Red and White	25	75	2 25

ONION SETS.

	Per quart.	Per peck.	Per bush.
White	15	market pr	
Red or Yellow	15	"	

SHALLOTS.

PARSLEY.

	Per ounce	Per 1/2 lb.	Per lb.
Plain Leaved	10	20	60
Double Curled	10	20	65
Improved Garnishing	10	20	65

PARSNIP.

Hollow Crown or Sugar	10	15	60
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PEAS.

	Per quart.	Per peck.	Per bush.
Extra Early (First and Best)	20	\$ 1 10	\$3 25
Early Alaska	20	1 10	3 25
Tom Thumb	20	1 15	4 00
Early Washington	20	1 00	3 75
Blue Beauty	20	1 10	3 75
Laxton's Alpha	20	1 25	5 00
Bishop's Dwarf Long Pod	20	1 25	4 00
Champion of England	20	1 25	4 00
Carter's Stratagem	30	2 00	5 00
Carter's Telephone	30	1 75	5 00
McLean's Advancer	25	1 25	4 50
McLean's Little Gem	25	1 25	4 50
Laxton's Prolific Long Pod	25	1 25	5 00
Eugenie	20	1 25	4 50
Dwarf Blue Imperial	20	1 25	4 00
Royal Dwarf Marrow	15	75	2 50
Black-Eyed Marrowfat	15	75	2 50
Large White Marrowfat	15	75	2 50
Dwarf Sugar	20	1 90	6 25
Tall Sugar	20	1 90	6 25
American Wonder	20	1 40	4 75

Field or Cow Peas. Market price.

PEPPER

	Per ounce	Per 1/4 lb.	Per lb.
Bell or Bull Nose	30	1 00	2 75
Sweet Spanish Monstrous	25	80	3 00
Long Red Cayenne	25	75	3 00
Red Cherry	40	1 25	4 00

By mail, add 15c. per quart for postage.

VARIETIES.

PRICES.

PEPPER—CONT'D.

	Per ounce	Per $\frac{1}{4}$ lb.	Per lb.
Golden Dawn Mango	\$0 25	\$0 75	\$3 00
Bird Eye	45	1 25	4 25
Tabasco	45	1 25	4 25
Chili	30	80	3 00
Ruby King, Sweet	25	75	3 00
Columbus, Sweet	40	1 25	3 50
Red Cluster	50	1 50	

POTATOES.

SPECIAL—We are in receipt of letters from the Eastern potato growers advising us of the short crop there and cautioning us against unscrupulous dealers, who are offering "Western Stock" under their brands at cut prices. We placed an early order for our seed potatoes, and are numbered among the fortunate ones who had their orders filled, which we stand ready to prove by bill lading from the growers of Vermont, Connecticut and Massachusetts. Our predecessor, the late Richard Frotscher, spent years in making his reputation for honest and reliable dealing, and it is our pride to maintain that good name, and will not take any chances of reflecting thereon in any manner. It will always be our aim to guard the interests of our patrons, as we thereby guard our own. Well begun is half done, and the practical and wise truckers can readily understand the fallacy of experimenting with poor seed, wasting time, energy and money. We again caution you against the false idea of saving, trying to economize a few dimes in the price of your seeds. However we have a large supply of Western stock potatoes which we offer under their proper brands at prices materially lower than our Eastern stock.

Thanking you for the past, we ask your consideration and await your future orders.

Prices subject to fluctuation.	Per bush.	Per barrel
Boston Peerless	\$1 50	4 00
Rural New Yorker No. 2	1 50	4 00
White Elephant	1 50	4 00
Extra Early Vermont	1 50	4 00
Vermont Early Rose	1 50	4 00
Snowflake	1 50	4 00
Improved Beauty of Hebron	1 50	4 00
Pride of the South	2 00	4 50
Rural Blush	1 75	4 00

These are all Eastern grown, true to name, and of the finest stocks ever offered in this market.

Early Triumph, Tennessee grown	1 75	4 00
The Triumph are highly recommended for early shipping. (Drayage extra.)		

POTATOES, SWEET.

Spanish Yam	
Southern Queen	
Shanghai or California Yam	

Prices vary according to market. Quotations given on application.

PUMPKIN.

	Per ounce	Per $\frac{1}{4}$ lb.	Per lb.
Kentucky Field	\$0 10	\$0 15	\$0 45
Large Cheese	10	15	45
Cashaw Crook-Neck (green striped) southern grown	10	20	65
Golden Yellow Mammoth	10	30	80

RADISH.

Early Long Scarlet	10	15	40
Early Scarlet Turnip	10	15	45
Yellow Summer Turnip or Golden Globe	10	20	60
Early Scarlet Olive Shaped	10	20	50
White Summer Turnip	10	20	60
Scarlet Half Long French	10	20	50
Scarlet Olive-Shaped, White Tipped or French breakfast	20	20	60
Black Spanish, Winter	10	20	60
Chinese Rose, Winter	10	30	75
Chartier	10	15	50
White Strassburg	10	20	60
White California Mammoth	15	20	65
ROQUETTE	20	70	2 00

SALSIFY.

Sandwich Island Mammoth	20	50	1 50
SORREL' Broad-leaved	15	50	1 50

VARIETIES.

PRICES.

SPINACH.

Extra Large-leaved Savoy
Broad-leaved Flanders

Per ounce	Per $\frac{1}{4}$ lb.	Per lb.
5	15	25
5	15	25

SQUASH.

Early Bush, or Patty Pan *12.5*
Long Green, or Summer Crook-Neck *12*
London Vegetable Marrow *12*
The Hubbard *2*
Boston Marrow *2*

10	15	60
10	15	60
15	50	1 50
10	20	65
10	20	65

TOMATO.

King of the Earlies
Extra Early Dwarf Red
Trophy, selected
Large Yellow
Acme, Livingston's
Paragon
Livingston's Stone
" Perfection
" Favorite
Horsford's Prelude
Dwarf Champion

20	50	1 75
20	50	1 75
20	50	1 75
20	50	1 75
20	50	1 75
20	50	1 75
20	50	1 75
20	50	1 75
20	50	1 75
20	50	1 75
20	50	1 75

TURNIP.

Early Red or Purple Top, strap-leaved
Early White Flat Dutch, strap-leaved
Large White Globe
White Spring
Yellow Aberdeen
Golden Ball
Amber Globe
Improved Purple Top Ruta Baga, Long Island grown
Munich Early Purple Top
Purple Top Globe
Extra Early White Egg
White Hanover

10	15	40
10	15	40
10	15	40
10	15	40
10	15	40
10	15	40
19	15	40
10	15	40
10	20	50
10	15	40
10	20	50
10	15	40

SWEET AND MEDICINAL HERBS.

Anise, Balm, Basil, Bene, Borage,
Caraway, Dill, Fennel, Lavender, Majoram
Pot Marigold, Rosemary, Rue, Sage,
Summer Savory, Thyme, Wormwood.

Per peck

All the above at 5 and 10 cents per package.

GRASS AND FIELD SEEDS.

Red Clover, Extra Cleaned
White Dutch Clover
Alsike Clover
Alfalfa or French Lucerne
Crimson, an annual
Lespedeza Striata or Japan Clover
Kentucky Blue Grass, fancy
Red Top Grass, choice
English Rye Grass
Rescue Grass
Johnson Grass, Extra Cleaned
Tall Meadow Oat Grass
Meadow Fescue Grass
Orchard Grass, choice
Timothy
Kaffir Corn
German Millet.....

Per lb.	Per $\frac{1}{2}$ bu.	Per bush
\$0 15		6 00
25		15 00
20		7 00
15		6 00
10		4 00
20		4 00
15		1 50
15		1 25
10		2 00
30		3 00
10		2 00
25		3 00
20		2 50
20		2 25
10		3 00
5		

Texas Rye
Texas Barley
Texas Red Rust Proof Oats

Market
Price.

Sorghum
Broom Corn
Dhouro or Egyptian Corn
Buckwheat
Russian Sunflower
Hairy Vetch

10		2 00
10		
10		2 00
15		
15		

Teosinte
Italian Rye
Bermuda Grass

Per lb.
1 25
50c. $\frac{1}{4}$ lb
2 00 bush.
1 25 lb

Burr or California Clover.....

(measured) per quart, 10c.; per bushel, \$2.00.

N. B.—Prices for larger quantities given on application.

NOVELTIES.



COPYRIGHTED BY J. S. CO.

Steckler's French Market Winter Cabbage.

This is a new and fine strain of an immense winter Cabbage grown on Long Island. It is one of the most uniform heading varieties ever brought to this market. The heads are larger than the Crescent City Large Late Flat Dutch, very solid, dark green in color, and matures as early. Fine for shipping.

Price, \$3.00 per pound; 1/4 pound, \$1.00; 30c per ounce.

Japanese Violet Fig.

As all Japanese varieties of fruit trees seem to thrive and do equally as well, and in many instances better, than in their own soil, our customers can feel assured that this grand Fig will prove a decided acquisition to the special selected stock we already carry. The fruit is the largest known, deep violet in color, and flesh very sweet. No orchard is complete without a few trees of this delicious fruit, which is becoming more popular every year as an article of commerce, bearing nearly the whole year.

Price, \$1.00 each; supply limited.



COPYRIGHTED BY J. STECKLER SEED CO.

STECKLER CO.'S French Market Lettuce.

This new Lettuce is a great improvement on the old and well known Royal strain, forming much larger and more compact heads. Is very crisp, tender, and olive green in color. Has been largely planted the past year, and gave most gratifying results.

Price, \$2.50 per lb.; 1/4 lb. 75c.; package 10c.; per oz. 25c.



COPYRIGHTED BY J. S. CO.



Japanese Plant Food and Fertilizer.

(Odorless.)

This is a safe and high grade Plant Food and Fertilizer, prepared especially for potted plants and out door use. It is truly a wonderful invigorator, producing luxuriant foliage of rich texture, large, perfect and more brilliant flowers and strong healthy plants. It contains all of the ingredients of plant food necessary for the highest development of plants and flowers. It is very soluble and readily assimilated, so that marked improvement is usually noticed in two weeks time. It is nice and dry, and easily applied by either sprinkling on the surface of the soil as a top dressing or dissolved in water. Sold only in 1 pound packages at 25c.

By mail 15 cents extra.

We are the sole agents for the United States.

Japanese Soluble Insecticide.

This is the safest, surest and best Insecticide ever brought before the public. It is a sure remedy for Cabbage worms, Turnip and Beet Fleas, Rose Lice, Green Fly, Scale, Mealy Bug, Red Spider, Aphides, etc.

For green-house, conservatory, garden and field use it has no equal, and is sure death to all insects.

Sold only in 1 pound packages at 25c.

By mail 15 cents extra.

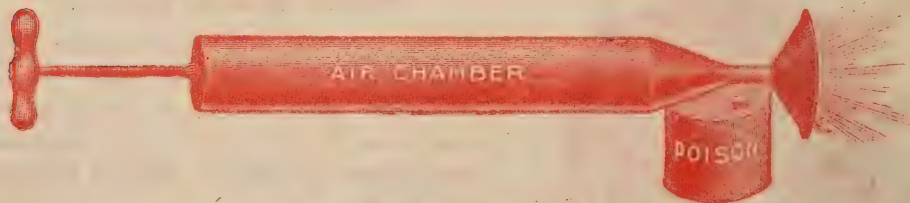
Full directions on every box.

We are the sole agents for the United States.

N. B.—The above two Japanese novelties go hand in hand, as both are necessary for the healthy maintainance of all plant life.



The Lightning Bug Exterminator.



One of the cheapest and best spraying machines for expelling and destroying Potato Bugs, Codling Moths and Canker Worms, Strawberry and Rose Slugs, Striped Fleas, Cucumber and Melon Beetles, etc. It is very light, yet strong, and with proper care will last many years. Very good for applying the Japanese Soluble Insecticide. Price, \$1.40.

STECKLER'S GIANT ZINNIA

COPYRIGHTED
BY
J. STECKLER SEED
CO. LTD



This new Zinnia is without doubt the largest and finest thus far introduced. It is a cross between the Elegans Pumila, fl. pl., and the Elegans grandiflora robusta varieties. The flower measures from tip to tip fully 6½ inches; half early, semi-high and perfectly shaggy. Each package contains a fine selection of beautiful colors. Price 15c. a package.

Ocean City Prolific Strawberry.

A splendid new berry which originated in Worcester county, Md. Plant is vigorous, with large broad green leaf; fruit as large as the Bubach, and larger than the Michel's Early, but later in bearing. Good for second crop; very prolific, and a very fine shipping berry.

Price, \$1.00 per 100.



Japanese Pomelo or Grape Fruit (Seedless.)

A decided late fruiting novelty of the Orange family, which promises to be as great a favorite as the Oonshiu. In taste it does not differ from the so-called "Grape Fruit," of Florida; having a slight tonic flavor, very pleasant, with plenty of juice and about as large as a Washington Navel, though of a flatter shape. It is not of the "Mandarin" kind, having a clear skin or peel. The trees are of rapid and robust growth, and being on the trifoliata stock, are very hardy; but experience has not yet shown what amount of cold they can withstand. It grows as large as the seedling orange tree, but being of a more spreading habit it should not be planted closer than 30-40 feet each way. Price, \$1.00, \$1.50 and \$2.00 each.

Early Ohio Potato.

This Potato is not exactly a novelty, as it has been in commerce for about two years; but as it is comparatively little known in the South, and has proven to be one of the best of the early varieties, we think it worthy of some special mention, and therefore add it to

our list of novelties. The originator claims that it is a hardier and more productive potato than the Triumph, and from what we have seen we are fully convinced that the claims are not exaggerated. The Potato in appearance bears some resemblance to the Early Triumph, except perhaps in color, which is a little lighter than the latter, and the shape of the eyes is somewhat different. Like all pink or red varieties it does best in sandy soil, but will grow very well in heavy soil, and not rot as easy during a wet season as do the Early Rose or even the Triumph. Price, per bbl. \$4.25; single bushel \$1.75; peck 50c.

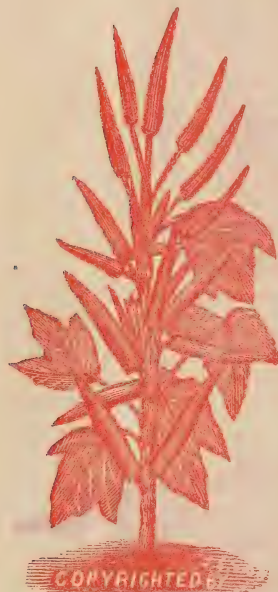
French Market Dwarf Prolific Okra.

One of the earliest and most productive of all Okras. It is a cross between the Tall Growing and the White Velvet varieties; commencing to bear when 6 inches high, producing a pod at the stem of each leaf, and continues bearing until the plant reaches its maximum height, seven feet. Pods are light green, nearly round, and smooth. The cut is an exact reproduction of a single plant. It will supersede all other varieties for market and shipping.

Price, per lb. 75c.; $\frac{1}{4}$ lb. 30c.; 1 oz. 10c.

Giant Imperial Japanese Morning Glory.

These are new types of the well known Morning Glory. The vines are of a strong and robust growth, attaining a height of from 30 to 40 feet. The foliage varies greatly, some plants having yellow or silvery foliage, while others are blotched and mottled; but the great charm of this wonderful introduction lies in the great beauty and gigantic



size of the flowers, which often measure six inches across, and their great substance causes them to remain much longer in perfection than the ordinary type. They consist of many varieties, beautiful colors, and most wonderful shades and markings of exquisite beauty. They are of easy culture, succeeding well in any sunny position. Our seeds are imported direct from Japan, and contain the finest and best varieties that can be obtained. Package 15c.; 1 ounce 75c.; $\frac{1}{4}$ lb. \$2.00; 1 lb. \$7.00.

Special prices to merchants on larger quantities.

New Dwarf Lima Wax Bean.

Named Lima Wax, as it has bright, glossy foliage and the bloom resembles the Dwarf Lima. The pods are very broad and flat and of excellent quality. The plant is branching and vigorous, with an immense amount of foliage; pods are borne in the greatest profusion, often a single plant having from 50 to 60 or more pods. They require thin planting (two beans being sufficient for a hill) on very rich soil. The pods are the broadest of all wax bush beans, color transparent glossy lemon wax, having the yellow waxy appearance very soon after the pods are formed. When picked will retain their bright attractive appearance for a long time and do not become tough. Quality very tender, juicy, and flavor delicate. Very fine for canning. Recommend same highly for family use. Price, 10c. a package.

SPECIALTIES.

The Improved Velvet Bean as a Fertilizer.

The Improved Velvet Bean, or more properly, "Pea" (as it belongs to the pea family), is a vining or climbing plant growing to forty and fifty feet, and branches literally covered with foliage. Is a nitrogeous plant, enriching the ground so much that orange growers plant the Velvet Bean in their groves for fertilizer as well as forage. When planted in rows four feet apart and one foot in row, two or three beans in a place, as soon as danger of frost is past, cultivate once or twice to give vines a start of weeds and grass they grow very rapidly and in two months the under leaves begin to drop and by fall the mulch of leaves is often six to eight inches deep. The vines and leaves have covered the ground four feet deep. The growth is so dense that it kills out cocoa or nut grass, Johnson grass and Bermuda. In fact the light is so thoroughly excluded that no other grass or weed can grow. The value of the vines and leaves for forage is good and as a fertilizer it settles the question of making orange groves without other plant food until the trees come into bearing, then potash should be used. Turn the vines, leaves and beans under in February and they reproduce themselves. The best for pine wood lands. Package 10c.; quart 50c.; per gal. 75c.; per peck \$1.25; per bushel \$3.50; by mail 15c. per quart extra.

Special prices on larger quantities. General agents for Louisiana and Mississippi.

Velvet Beans are cheaper at \$4.00 per bushel than cow peas at \$1.25, as it requires but one peck per acre, whereas cow peas require $1\frac{1}{2}$ bushels.

This is a good thing; I planted half an acre last July which put my ground in fine condition from sod to a finely pulverized, for fall gardening. Three rows were left for seed and are now ripe enough to gather. The Velvet Bean cannot be too highly recommended both as a stock food and a fertilizer.

W. B. GRAY.

Davis Wax Beans (Bush.)

Without doubt the best white seeded Dwarf Wax Bean in cultivation. The pods are clear waxy white, long, straight and thick. It is very early, productive and handsome in appearance. The plant is of a sturdy robust habit, which enables it to hold up the pods from coming in contact with the soil. Good for shipping. Sold only in packages at 15c.

Chicago Early Blood Turnip Beet.



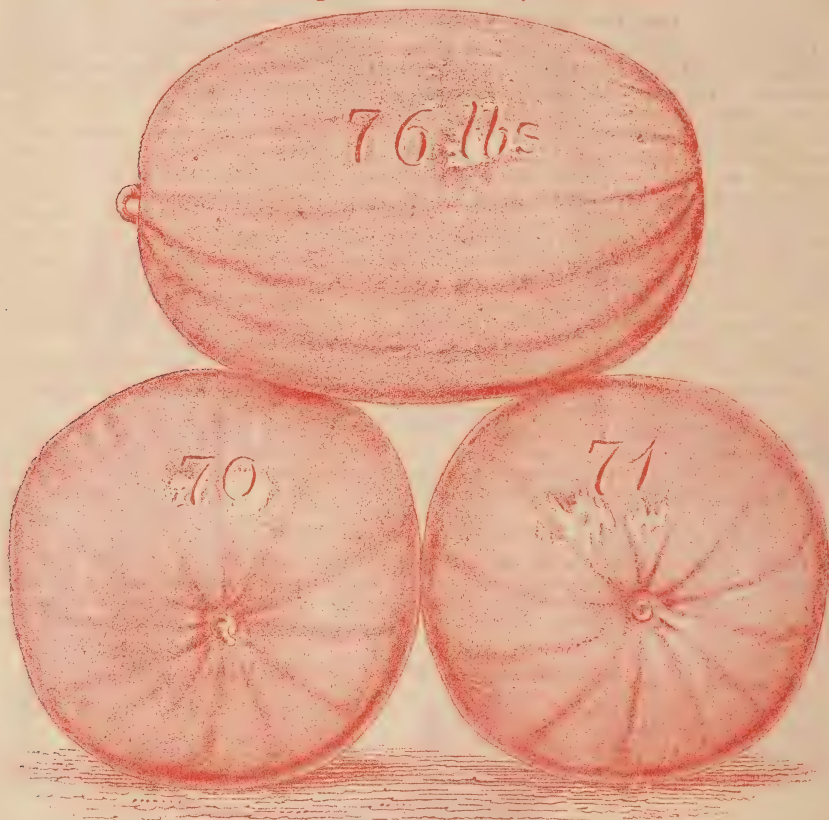
A splendid Beet for market and shipping. Very handsome, perfect in form, and deep bright red color. It is early, crisp, tender and sweet, and one of the finest beets under cultivation. Price, 10c. per package; 25c. per $\frac{1}{4}$ lb.; 75c. per lb.

Japanese Climbing Cucumber.

The vines are extra strong, and foliage more vigorous than other kinds. Being of a climbing habit it can be grown on trellises, etc. Fruit is round, about 10 inches long.

thick, and of fine flavor. It is very prolific, from forty to fifty cucumbers growing on a single plant. Has given entire satisfaction the past season. Price, 10c. per package.

Early Triumph Water Melon, True Strain.



This new Melon has been largely planted the past year, and has proven so successful that we considered it worthy of being classed as one of our leading specialties. It is the best market and shipping melon thus far introduced. The rind is dark green, the flesh deep red and very sweet. The melon is very large, weighing from 40 to 80 pounds. Price, per lb. \$1.00; $\frac{1}{4}$ lb. 40c.; package 10c.

Market Gardeners' Curled Parsley.

A splendid variety for shipping. The leaves are handsomely curled, dark green in color, and of very fine flavor. A decided improvement on the regular curled variety. We recommend same very highly. Price, \$1.00 per lb.; $\frac{1}{4}$ lb. 30c.; package 10c.

Mammoth Italian Pumpkin.

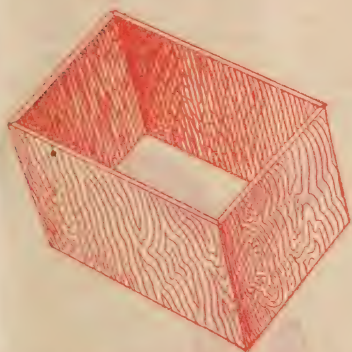
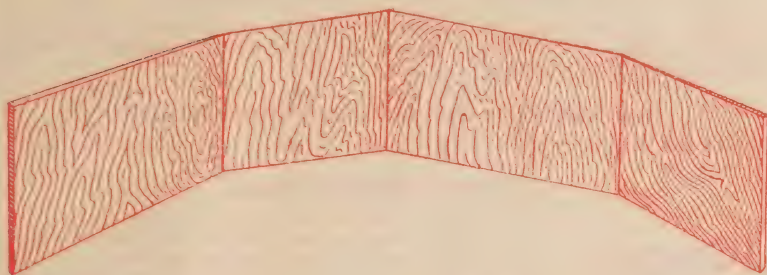
A grand variety which originated in Italy, from which its name is derived. It is handsome in appearance, and very large, weighing between 50 and 75 pounds. It is prolific, very sweet and tender, and almost seedless. A fine table variety, and equally as well adapted for stock feeding. Sold only in packages at 10c.

Tree Tomato.

A variety which grows like a tree, bearing large, plump red fruit. It is very productive, and quality excellent. A fine Tomato for the home garden. Sold in 10c. packages. 50c per oz.; \$1.50 per $\frac{1}{4}$ lb.

Ponderosa Tomato.

Although not new, still we consider it worth mentioning, as a good many of our customers are looking for quantity as well as quality, and they are all combined in the Ponderosa Tomato. The vines are strong and vigorous, fruit smooth and free from ridges, and skin firm. Its color is a rich crimson. The fruit varies in weight from 2 to 3 pounds. It is a splendid variety for home use. Price per package, 10c.; 50c. per oz.; \$1.50 per $\frac{1}{4}$ lb.

Strawberry Shooks or Dirt Bands.

Eggplants, Musk Melons and Early Cucumbers pay well if they come early into the market. In order to have them early it is a good plan to start them in a cold frame in what are called "Dirt Bands." This is a box 4 inches square and 4 inches deep, without bottoms. These are placed in a frame and filled up with good rich soil, and five or six seeds in each box; when the plants come up thin them out to one or two in each box. The time to start them in this way varies as seasons and localities differ. It is not well to start them too early, as the plants get weak and spindly if kept too long in the frame. From the middle to the end of February is the usual time to plant the seed in this locality, New Orleans. When large enough to plant out, which will be in from four to five weeks after planting, take the boxes with the

plants in them out of the frame, by slipping a spade under the box. Plant without breaking the ball of soil on the plants. Price, 50c per 100, or \$2.50 per 1000.

Giant Beggar Weed.

One of the most valuable of all forage plants. has been extensively planted these few years past, and has given entire satisfaction. Its special features are:

- 1st. Restoring worn out land.
- 2d. Is an annual, when once established it requires no further attention.
- 3d. Is easily eradicated when desired.
- 4th. Requires no cultivation.
- 5th. Is relished by all forage grazing animals.

6th. Does not interfere with the growing of other crops, and is sown like oats.

Six pounds will plant an acre. 40c. single lb.; 5 lb. lots \$1.75; 10 lbs. \$3.00; 25 lbs. and upwards 25c. per lb.

Steckler Co.'s Mixed Lawn Grass.

For lawns of any extent we recommend this our best mixture. We have combined all the most suitable varieties that are necessary for making a beautiful lawn. It is the best proportioned mixture of grasses in the South. Price, 20c. per lb.; \$2.50 per bushel. Three bushels to acre.



Steckler Co.'s Grass Seed Mixture.

For meadows and pastures. No. 1. For light soils for one acre \$7.00. No. 2. For heavy soils, for one acre \$5.00. No. 3. For shady soils, for one acre \$6.00. When ordering please state condition of soil and location.

Steckler Co.'s Special Hog Pasture Mixture

Makes one of the best pastures for hogs. 20 lbs. to acre. Price per lb. 20c.

Zucker's Medical Eggs.

One of the best inventions in the line of Nest Eggs. They have the appearance of buff colored chicken eggs. They are clean and a positive vermin exterminator. These eggs are made of burnt clay, hollow inside and filled with a dry, strong insecticide, harmless to chickens, but sure death to all insects which fowls are subject to. No dusting insect powders, etc., in the nests, one of these eggs, if placed under the chickens, will keep them and their nests free of vermin. Each 10c.

The Improved Lawn Sprinkler.

This is by all odds the *Finest Sprinkler* of its class on the market. It throws a beautiful spray. In order to use it properly it has to be screwed on a hose, which may be either attached to a hydrant or force pump. The streams of water that are forced through the openings on top set the propeller blades going, and in this manner distribute the water in shape of a heavy rain shower over a large space.

The entire implement is of solid brass, nicely finished, and the base japanned. Price, \$1.50 each.

**Bliss Triumph or Improved Bermuda Potato.**

One of the best of all early Potatoes, combining the productiveness of the Peerless with the excellent qualities of the Early Rose. It is more prolific than the former, and much earlier than the latter. Tubers are medium in size, round and very uniform in shape; eyes slightly depressed, and color of a beautiful light red. It is rapidly growing in favor, and will soon become a standard variety. Price, \$4.25 per barrel.

Genuine Grand Point Perique Tobacco.

This variety of Tobacco is one of the best in the world, excelling in flavor and quality the far famed "Vuelta Abajo." The only *genuine* Perique is grown at Grand Point, and as the supply does not meet the increased demand many imitations are put on the market. We have only a limited supply of the genuine seed of this magnificent Tobacco. Price, 25c. a package.

The Vegetable Pear.

Sycios or Sechium edulis.

The Vegetable Pear, or "Mirliton," as the Creoles here call it, belongs to the Gourd family, and is known to botanists under the name of "One-Seeded Cucumber." Like most of the Gourds the plant is a vine and may be trained upon a trellis, on a fence or arbor; it is very ornamental and an abundant bearer. The fruit, if prepared right, forms

a delightful dish, much finer in flavor than either Eggplants, squashes or Pumpkins, and may be cooked in half a dozen different ways, either stewed, baked or as batter cakes. As the fruit contains but one seed the whole fruit has to be planted, 10c. each, 3 for 25c.

Nymphaea Zanzibarensis or The Blue Zanzibar Water Lily.

Plants raised from seeds produced by this magnificent variety will yield flowers varying from a light to a very dark, deep blue; some will be light sky-blue, just the shade of the flowers of *Plumbago Capensis*, others a rich deep azure blue, becoming lighter in a day or two, while others may be of a shade of blue so deep that it is not unreasonably called purple. This form is called "Royal Purple Water Lily," and sells as high as \$10 per root. The stamens of all are bright golden yellow, tipped with the same shade of blue as the petals. The flowers open at about 7 a. m. and close about 4 p. m., each flower opening four days in succession, and giving off a most delightful odor. Seeds, 25c. per packet.

To Grow Them from Seed.—In February or March take old tea-cups and fill them about two-thirds full with fine, rich garden soil, press it down firm and scatter the seeds on the surface, covering them to the depth of an eighth or a quarter of an inch with clean sand. Fill up carefully with water, so as not to disturb the seeds, and place where they will keep at a temperature of 70 or 80 degrees until they germinate, which will be from six to fifteen days. Those having no greenhouse can start them near the stove or on the mantel, moving them to a warm, sunny window as soon as the plants are well up. After the plants are large enough to handle, transplant them to two-inch pots, which have been nearly filled with soil composed of silt, thoroughly decayed stable manure and garden soil in about equal parts. Set one plant to each pot, press the soil down firm and set them in a pan of water deep enough to cover the plants about an inch. They can be kept in a sunny window in the house until time to plant out in the tubs. If the largest leaves are from two to three inches across by the first of June, they are large enough for flowering in July. Do not put them in the open air until the weather has become quite warm. Give them as much sun as possible at all times. The warmer the water and the richer the soil, the faster they will grow. Never try to flower more than one plant in a tub, no matter how large the tub may be.

Pot Plants and Ornamental Shrubs.

Since the last two years we have had quite a number of inquiries for Pot Plants and Ornamental Shrubs of all kinds, we have concluded to add to our large stock of Seeds and Fruit Trees an assortment of such hardy varieties of Plants and Shrubs as suit our Southern climate. We will at all times have constantly on hand all varieties of hardy Palms, Camellias, Roses, Geraniums, etc., and will sell them at the following reasonable prices.



Begonia in varieties, Rex and bloom-

ing	.....	45c to 65c each
Grand Duc Jessamine	.....	25c to 50c "
Arabian	.....	25c to 50c "
Yellow	.....	25c to 50c "
Spanish	.....	25c to 50c "
Rhynchospermum	.....	30c to 50c "
Fls.	.....	10 to 15 "
Pansies	.....	40c to 50c per doz
Daisies	.....	30c "
Chinese Pluks	.....	50c "
Pot Marigold	.....	40c "
Sweet Alyssum	.....	20c "
Candytuft	.....	40c "
Chrysanthemums, best varieties	.....	\$1.25 "

Hardy Palms for out of Doors.

Phoenix canariensis	.....	\$3.00 to \$5.00 each
.....	.....	10 to 25 "
Cycas revoluta	.....	50 to 25 00 "
Cocos Australis	.....	1.00 to 5.00 "
Chamerops in four varieties	.....	75 to 5 00 "
Latania Carbonica	.....	1.00 to 15.00 "



Kentia Belmoreana	\$1.00 to \$8.00 each	Geraniums, assorted colors	20c to 35c each
" Fosteriana	1.00 to 8.00 "	Paris Daisy	20c to 35c each
" Canterburyana	1.00 to 8.00 "	Heliotrope	1c to 30c each
Arcea lutescens	75 to 8.00 "	Petunias, mixed colors	15c each
" rubra	3.50 to 5.00 "	Althernanthera or Amaranths in colors	\$3.50 per 100
Araucaria excelsa	\$1.50, 3.00 & 4.00 "	Wisteria, blue	25c each
Pandanus Veitchii	60 to 4.00 "	Honeysuckles, red and yellow	20c to 50c each
Dracaenas in 15 varieties	30 to 1.75 "	Carnation Pinks	25c to 35c each
Grotons in 10 varieties	20 to 1.50 "	Verbenas, assorted colors	50c per doz
Ficus repens	20c "	Plumbago, blue	20c to 50c each
" elastica	50 to 1.50 "	Lemon Verbena	25c to 35c each
" nitida	1.25 to 7.00 "	Sweet Olives	35c to \$1.50 "
Ferns.		Magnolia Fuscato	50c to \$1.50 "
Adiantum Farleyensis	35 to 3.50 "	Phlox, flowering	40c per doz
" Cuneatum	25 to 3.50 "	" perennial, purple	40c "
" decorum	30 to 3.50 "	Asters, assorted	40c "
" princeps	30 to 3.50 "	Nasturtium, assorted	20c each
" gracillimum	30 to 3.50 "	Rosemary	10c each
" tenerum	20 to 40 "	Marjoram	10c each
Pteris tremula	40 "	Thyme	10c each
Nephrolepis in 6 varieties	20 to 1.00 "	Sweet Basilum	10c each
Alsophylla australis or Tree Fern	50 to 3.75 "	Pyrethrum or Golden Feather	5c each
Azalea indica, assorted	1.00 to 1.50 "	Marechal Niel Rose, grafted on Lady Bauls	\$1.00 to \$1.50
Camelia Japonica, all colors	1.25 to 1.50 "	Lygustrums Japonica	75c each
Strong plants, Roses, best varieties	\$2.50, \$3.00, \$3.50 and \$5.00 per doz	" for hedges, 1st size	15c each
		" 2d size	30c each
		Antyrorum Leptipus	10c each

Poultry.

We have also concluded to add to our list all varieties of Fancy Poultry and Canary Birds. Having made arrangements with some of the best Poultry raisers in the country, we are prepared to fill orders for all sorts of Fancy and Game Chickens and Eggs - true to name." Canary Birds, genuine Hartz, excellent singers, on hand during the season.

In filling orders for Poultry, Eggs and Canary Birds, our responsibility ceases as soon as the goods leave our store. All goods are carefully packed and every precaution is used to insure prompt delivery.

Sole Agents "Davy Crockett" Fruit and Poultry Farm, Handsboro, Miss.



Fancy Poultry and Eggs.

Light Brahma Eggs, 1 setting of 15	\$2.00	Trio	9.00
" 2 "	3.50	Plymouth Rocks, 1 setting of 15	2.00
Single Bird	2.00	" 2 "	3.50
Pair	5.00	Single Bird	2.50
Trio	7.00	Pair	4.50
Langshangs, 1 setting of 15	2.00	Trio	6.00
" 2 "	3.50	Mammoth Bronze Turkeys per setting 9 eggs	2.50
Single Bird	3.00	" 2 "	4.00
Pair	5.00	Single Bird	4.00
Trio	7.00	Pair	7.00
S. C. B. Leghorns, 1 setting of 15	2.00	Trio	10.00
" 2 "	3.50	Imperial Pekin Ducks, per setting of 11 eggs	2.00
Single Bird	2.50	" 2 "	3.50
Pair	4.50	Single Bird	2.50
Trio	6.00	Pair	4.50
Ruff Leghorns, 1 setting of 15	2.50	Trio	6.00
" 2 "	4.50	Also Poland Chinas and Berkshire Hogs, prices given on application.	
Single Bird	4.00		
Pair	7.00		

BIRDS AND ANIMALS.

We have made special arrangements with one of the largest and most reliable Bird establishments in the United States to furnish the following assortment of singing Birds and pet animals. While every endeavor is made to guarantee the safe delivery of all Birds and Animals, it is understood that we will in no wise be responsible for delays, damages or non-arrival of shipments. Terms cash.

Birds.



A Grand Premium.

We have made such arrangements with the manufacturers as enables us to make this Remarkable Offer: **One "ACME" Seed-Drill** to any one who purchases only \$3.00 worth of our seeds in 5c. packages. (No discount is allowed either in seeds or cash on the \$3.00 order, of course.) Drill alone, \$1.00.



Rosa Cockatoos.....	8.00	each
Red Macaws.....	15.00	"
Blue ".....	15.00	"

Monkeys.

Whitefaced Ringtail Monkeys	\$10—\$15.00 each
Cinnamon Faced Ringtail Monkeys	\$10— 15.00 "
Spider Monkeys.....	\$12— 15.00 "

Dogs, Etc.

Havana Poodle	Pups, males	\$10.00 each
	females	8.00 "
English Pug	Pups, males	10.00 "
	females	8.00 "
Newfoundland	Pups, males	\$10.00—15.00 "
	females	\$8.00—10.00 "
St. Bernard	Pups	\$15.00—20.00 "
Black and Tan	Pups	\$10.00—15.00 "
White Rabbits		\$2.00—2.50 a pair
Guinea Pigs		\$1.50—2.00 "
Grey Squirrels		\$3.00 each
Flying Squirrels		1.00 "
Maltese Cats and Kittens		\$2.50—3.00 "
Gold Fish, European		.75 a pair
Japanese Fantail Gold Fish		\$1.50 "
Silver Fish, European		.50 "
Telescope Fish		2.00 "

The Acme Seed Drill.

A Garden Seed Drill that will distribute Beet, Cabbage, Carrot, Celery, Lettuce, Radish, Turnip, and all such seeds with perfect regularity. It is utterly impossible for it to sow anything but accurately, doing the work as thoroughly as the costly machines, and will cover ten times the ground that can possibly be covered by hand. It is simple in construction, so easily understood that a child can be instantly taught to use it; so simply constructed it is impossible to get out of order.



THE PERFECTION SEED SOWER.

\$2.25 each.

The Cheapest and Best on the Market.



FLOWER AND LAYER POTS.

2 inches	20c. per doz.
2 1/2 "	24c. "
3 "	30c. "
4 "	40c. "
5 "	70c. "
6 "	75c. "
7 "	81.00 "
8 "	1.25 "
9 "	2.00 "
10 "	3.00 "
12 "	35c. each
13 "	40c. "
14 "	65c. "
15 "	85c. "

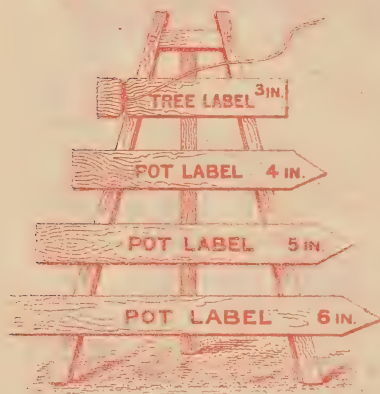
Saucers for all the above sized pots same price, less 20 per discount.

The cost of packing charged extra.
Special prices given on application.

POT AND TREE LABELS.

Wired Tree Labels, 3 inch	25c. per 100
Pot Labels, 6 inch	25c. "
" 5 inch	20c. "
" 4 inch	15c. "

Prices per 1000 given on application.



10:

RHUBARB OR THE CELEBRATED PIE PLANT

Strong Roots.

15 cents each; \$1.50 per dozen.

HORSE RADISH SETS.

15 cents per dozen.

FRENCH MUSHROOM SPAWN.

75 cents per pound.

A description of how to cultivate goes with every pound.

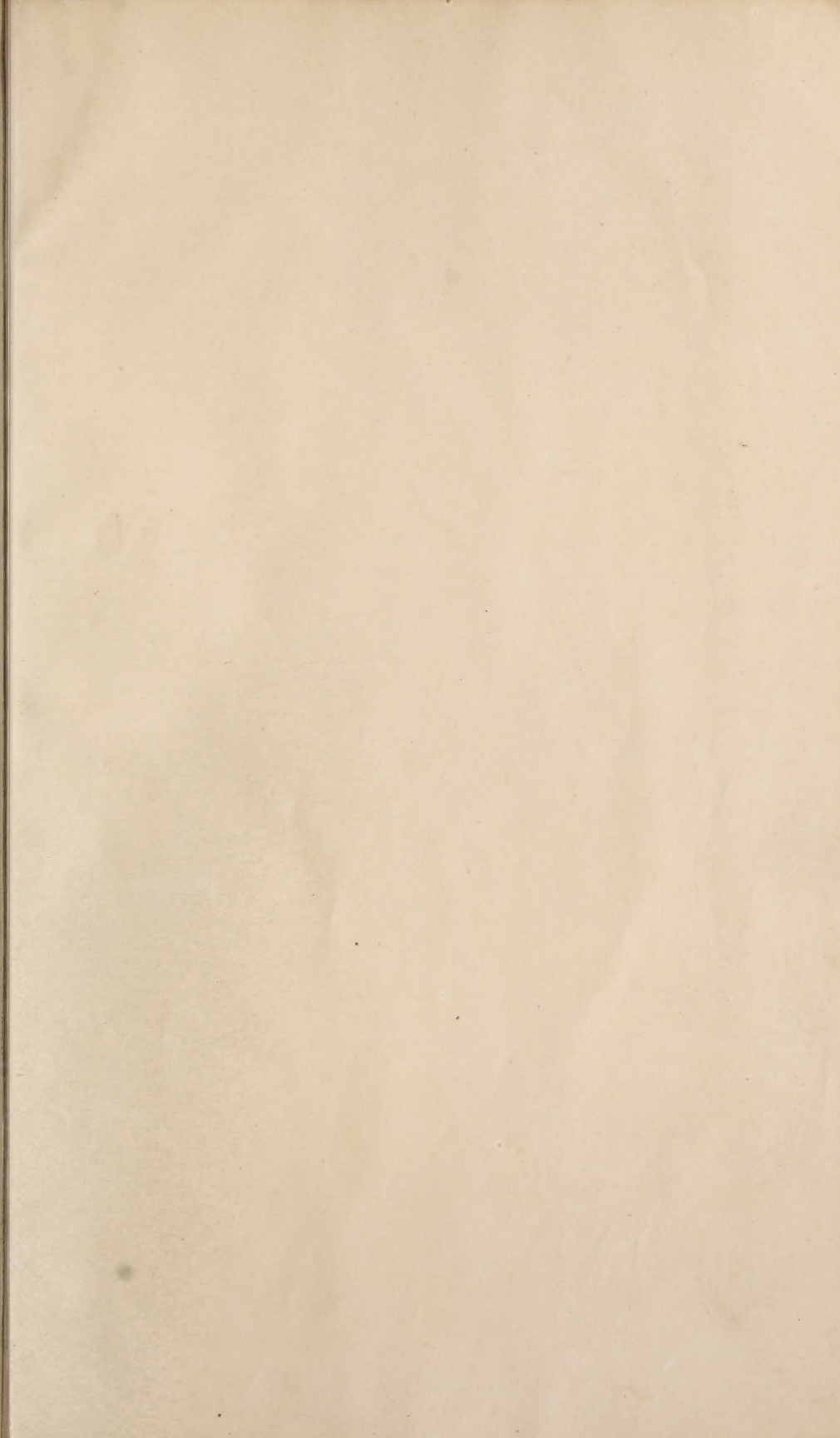


Giant Violets, 25c. per dozen.

California Violets, 30c. per dozen.

Double Violets, 30c. per dozen, small plants. Double Violets, 50c. per doz, large plants

White Violets, prices given on application.



Joseph.

50

Joseph.

